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Paper Paperboard & Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 59 - No. 11

November, 1981

Production Rate Eases

Preliminary estimates indicate that production of paper and paperboard in October, at 5,444,000 tons, was only 1.3% above the September total and 3% below that of August. In past years, October production tended to be well above the September total and about equal to that of August.

For the entire January-October 1981 period, total paper and paperboard production was at a seasonally adjusted rate of 65.2 million tons per year, 2.9% above the comparable 1980 rate.

Data on paper and paperboard production in the early weeks of November point to further declines, particularly in paperboard. Paperboard production normally turns down earlier than paper in periods of business downturns; as a major packaging material, it is more rapidly impacted by a decline in industrial production.

The weekly data on paper production published in the API's Weekly Production Report indicate that production in October was about 4% above the rate of shipments, and that there was some inventory building at paper mills. The monthly data also show that production in mid-November started down and was below the October rate.

The major strength in October paper production was in newsprint. Newsprint production in October, at 463,000 tons, was 5% above the September level; the January-October 1981 total was 12.4% above that of 1980 and 30.6% above the comparable 1979 total. These increases reflect the start-up in the 1979-1981 period of six new machines with an announced capacity of 1,075,000 annual tons.

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Continued from Page 1

They also reflected the steady trend in newsprint demand. Newsprint new supply (production plus imports minus exports) in the first ten months is estimated at an annual rate of 11.9 million tons, which is slightly above the average 1980 rate. While there was some build-up of newsprint inventories by newspaper publishers, the reported rate of their newsprint consumption in the first nine months of 1981 was also slightly above the 1980 rate.

Production of paper, excluding newsprint in October, was a few thousand tons below the September total. Production of printing and writing papers, for example, was off by 6,000 tons. A gain in the production of uncoated groundwood papers was offset by declines in both coated papers and uncoated free sheet papers.

Production of containerboard for domestic use accounts for about 61% of total paperboard production. This paperboard is shipped to fibre box (corrugated shipping container) plants, where nearly all of it is converted to fibre boxes. Data published by the Fibre Box Association show that the rate of shipment of fibre boxes has been trending downward since July, with the October seasonally adjusted rate about 7.5% below the July peak.

The pattern of fibre box shipments in the first ten months of 1980 was markedly different from that of 1980: In the 1981 period the rate of shipments showed very small fluctuations around a flat trend; last year the trend declined by 9% from March to June, but recovered nearly all that ground during the second half of the year. Thus, where shipments were in a sharply rising trend in the 1980 fourth quarter, they are in a downtrend in the 1981 fourth quarter. Nonetheless, the January-October 1981 total was still some 2.7% ahead of its corresponding 1980 total, and about 1% below its 1979 high.

The production of containerboard for domestic use in the first 10 months of 1981 was 7.7% ahead of its corresponding 1980 total. Part of this increase reflected increases in containerboard inventories at mills and box plants. Data from the Fibre Box Association showed a gain in inventories at mills and box plants of 477,000 tons from January 1 to November 1. (Over 90% of containerboard inventories are held at box plants.) This brought the inventory level to about 7 weeks of supply, compared to 6.2 weeks of supply at the beginning of the year.

PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS

(Thousands of Tons)

	YEAR		JULY 1981	AUG. 1981	SEPT 1981	OCT. 1981	Annual Rate Y-T-D 1981	% Change from same Period Last Year
	1979	1980						
PAPER					R	P		
Newsprint - Production	4062	4672	446	469	441	463	5267	12.4
- Shipments	4066	4667	442	465	452	460	5240	12.2
Printing & Writing	15413	15605	1233	1329	1338	1332	15956	1.9
Groundwood Paper - Shipments	1509	1498	111	126	110	127	1447	-3.9
- New Orders	1519	1475	125	130	119	111	1445	-3.1
- Unfilled Orders	149	110	119	122	134	117	117	-1.9
Coated Paper - Shipments	4527	4673	387	422	434	424	4977	7.1
- New Orders	4547	4753	407	424	409	433	4910	2.9
- Unfilled Orders	385	391	341	340	319	325	325	-22.4
Unctd Free Sheet - Shipments	7823	7983	620	647	666	644	7970	-1.0
- New Orders	7836	7694	639	633	631	637	7810	0.7
- Unfilled Orders	781	546	498	475	446	444	444	-25.3
Thin Paper - Production	372	343	25	28	27	28	341	-1.3
Cotton Fiber Paper - Shipments	125	126	8	9	10	11	121	-4.0
Bleached Bristols - Production	1058	982	83	96	92	97	1101	11.8
Tissue Paper - Production	4520	4375	347	395	371	380	4498	2.4
Total Packaging & Other Paper	5895	5539	428	485	455	447	5576	-0.3
Unbl. Kraft Paper - Shipments	4098	3930	298	330	315	307	3926	-1.2
Other Paper - Production * ♦	1797	1609	130	156	140	140	1649	2.0
TOTAL PAPER-Production-Unadj.	29890	30191	2453	2678	2606	2621	31297	3.2
-Production-S.A.			2632	2583	2708	2525	31123	3.6
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	23838	23881	1980	2115	1997	2027	24920	3.2
Unbl. Kraft Linerboard (1)	13951	14232	1156	1318	1215	1213	14966	3.9
Production for Export	1645	2380	142	180	128	130	1869	-23.7
Other Unbl. Kraft Paperboard	1200	1063	111	65	72	96	1115	2.1
Semichemical Paperboard	4689	4723	388	396	390	395	4823	1.5
Production for Export	98	322	11	11	10	9	147	-50.8
Solid Bleached Paperboard	3998	3862	325	336	319	324	4015	3.1
Production for Export	491	545	40	49	45	45	557	0.2
Recycled Paperboard	7591	7071	529	622	593	602	7266	2.4
Production for Export	22	83	1	1	1	1	22	-74.5
TOTAL PAPERBOARD-Prod.-Unadj.	31429	30952	2509	2737	2590	2629	32186	3.0
- Containerboard Prod.(Dom. Use)	18825	18070	1557	1668	1620	1629	19638	7.7
- Boxboard Prod.(Dom. Use) (2)	5776	5477	430	477	454	470	5720	3.5
- All Other P'bd Prod.(D.U.) (2)	4571	4075	329	349	332	345	4232	3.6
- Total Paperbd Prod. for Export	2257	3329	194	242	184	184	2595	-23.5
TOTAL PAPERBOARD PROD. - S.A.			2625	2642	2715	2516	31779	3.4
WET MACHINE BOARD *	144	138	12	14	13	14	158	16.5
BUILDING PAPERS *	1868	1369	96	92	90	100	1238	-11.4
INSULATING BOARD *	1263	1051	77	76	75	80	916	-14.1
TOTAL ALL GRADES - Unadjusted	64594	63701	5147	5596	5374	5444	65795	2.5
- Production - S.A.			5458	5389	5603	5224	65193	2.9
HARD PRESSED BD. [not in total]*	2306	1970	168	166	145	170	2020	4.1

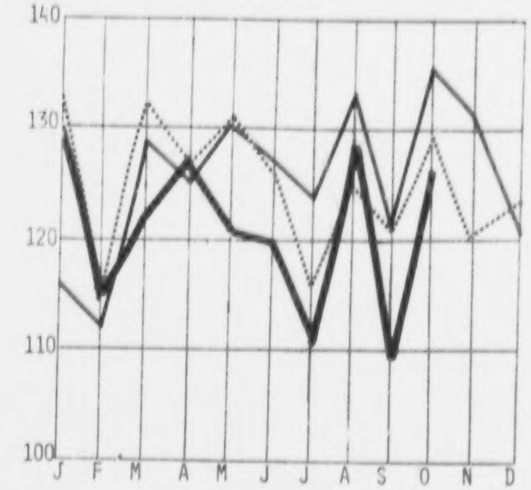
* Census Data - Production. Last two months estimated.
♦ 1981 data estim. by API to conform to revised data for prior years.
(1)Includes all exports of kraft paperboard.
(2)Data for unbl. kraft folding boxboard incl. in aAll Other P'bd.

S.A. Seasonally Adjusted
P Preliminary
R Revised

GROUNDWOOD PAPER, UNCOATED

SHIPMENTS

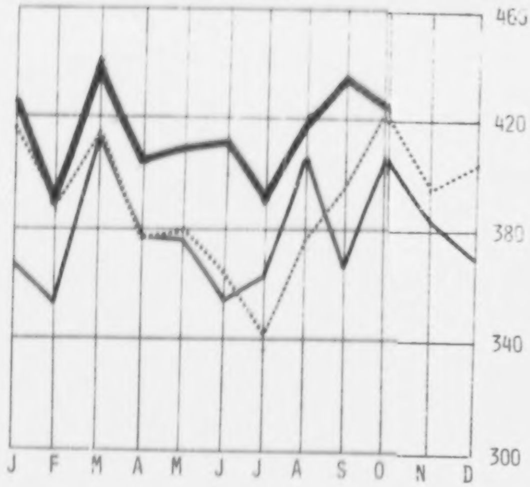
THOUSANDS OF TONS



COATED PAPER

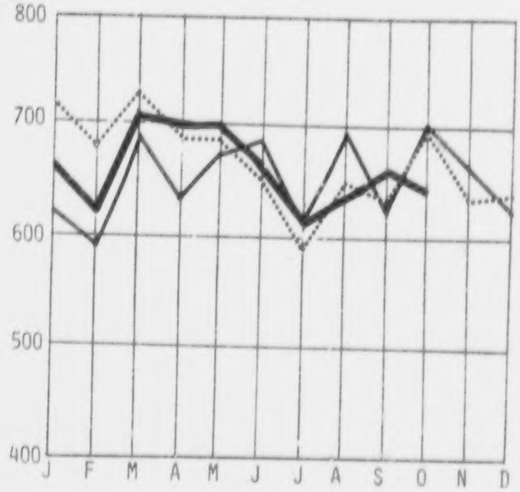
SHIPMENTS

THOUSANDS OF TONS



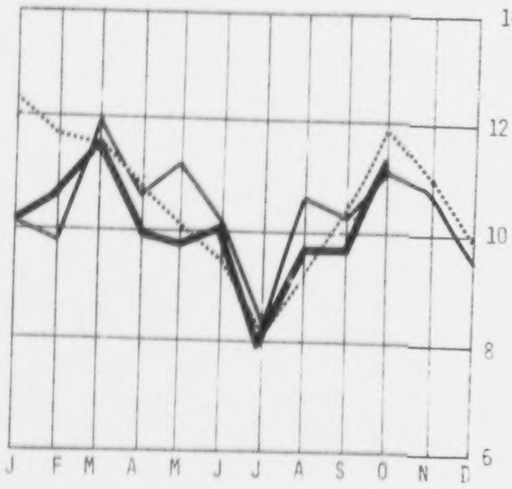
UNCOATED FREE SHEET PAPERS

SHIPMENTS



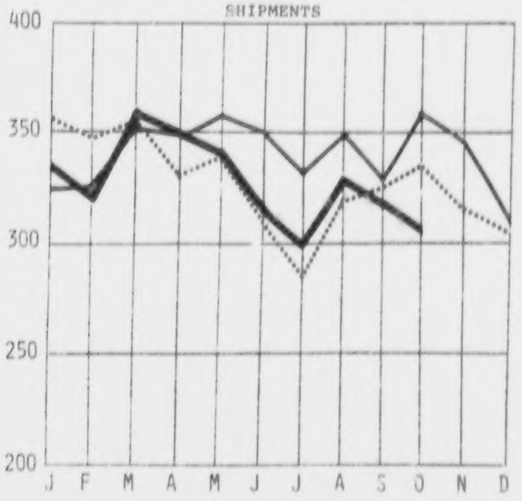
COTTON FIBER PAPER

SHIPMENTS



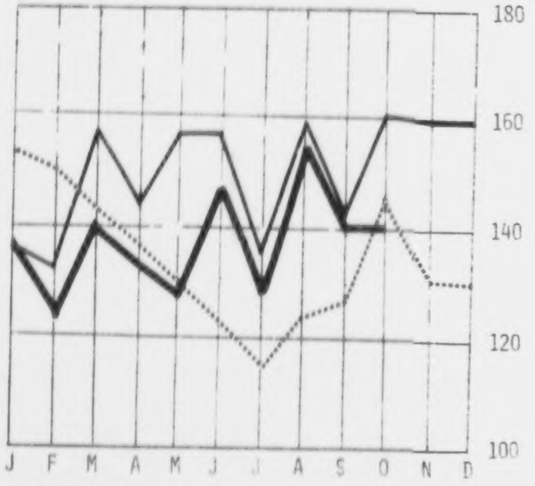
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1979 ——— 1980 ········ 1981 ▬▬▬

WOOD PULP STATISTICS

(Thousands of Tons)

		YEAR 1979	1980	JUNE 1981	JULY 1981	AUG. 1981	SEPT 1981	Annual Rate Y-T-D 1981	% Change from same Period Last Year
TOTAL WOOD PULP (1)						R	P		
Total Wood Pulp	- Production	49367	50560	4393	4057	4514	4305	52596	3.4
	- Imports	4318	4051	349	329	323	279	4112	-0.4
	- Exports	2935	3806	359	237	300	347	3762	-2.6
	- New Supply	50750	50805	4383	4149	4537	4238	52945	3.5
Dissolving Pulp	- Production	1497	1508	120	102	140	102	1385	-8.5
	- Imports	193	263	11	29	14	28	239	-12.2
	- Exports	764	769	70	65	65	63	778	-4.9
	- New Supply	926	1002	61	66	89	67	846	-12.6
Paper Grades Chemical Pulp	- Production	39416	40430	3508	3255	3600	3454	42134	3.4
	- Imports	3923	3615	326	296	290	246	3691	0.5
	- Exports	2100	2956	286	170	234	283	2960	0.1
	- New Supply	41239	41089	3547	3381	3656	3417	42866	3.4
Groundwood and Thermo-Mech.	- Production	4394	4579	427	387	444	427	5030	10.2
	- Imports	201	173	12	4	20	5	181	0.0
	- Exports	70	81	3	1	2	1	24	-72.1
	- New Supply	4525	4672	437	389	462	432	5187	11.3
Semi-Chemical	- Production	4060	4043	338	313	330	322	4046	-0.4
	- Imports	0	0						
	- Exports	0	0	------	Included	with	Groundwood	Pulp ------	
	- New Supply	4060	4043	338	313	330	322	4046	-0.4
MARKET WOOD PULP									
Total Market Wood Pulp	- Production	5678	6488	538	479	581	481	6231	-4.8
	- Imports	3046	2947	271	217	237	244	2940	-1.0
	- Exports	2795	3513	314	206	287	353	3410	-3.4
	- New Supply	5929	5921	496	489	532	371	5760	-3.7
Dissolving Pulp	- Production	1497	1506	120	102	139	102	1348	-10.8
	- Imports	306	235	18	23	10	21	236	-0.5
	- Exports	869	876	58	49	72	93	791	-12.9
	- New Supply	934	865	80	77	78	30	793	-5.6
Paper Grades Chemical Pulp	- Production	4118	4913	418	376	441	379	4881	-1.5
	- Imports	2734	2687	251	191	225	219	2649	-2.3
	- Exports	1880	2588	255	156	214	260	2607	1.6
	- New Supply	4972	5012	414	411	451	338	4924	-3.4
Groundwood Pulp and All Other	- Production	63	69	0	0	1	0	2	-98.0
	- Imports	7	26	2	3	2	4	54	188.0
	- Exports	46	50	1	1	0	0	13	-77.9
	- New Supply	24	44	2	2	3	3	43	7.7

(1) Prodctn excludes defibrated, exploded & screenings-(000 tons): 1979 - 3,274; 1980 - 2,451; '81 ARY-T-D - 2,671

SOURCES: Total Wood Pulp Imports & Exports - Department of Commerce. Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp & Raw Materials Group, API.

FIBROUS RAW MATERIALS

(Thousands of tons)

	1979	1980	JUNE 1981	JULY 1981	AUG. 1981	SEPT 1981	Annual Rate Y-T-D 1981	% Change from same Period Last Year
CONSUMPTION AT PAPER & BD. MILLS					R	P		
Total	65867	64487	5541	5159	5651	5464	66922	3.8
Total Wood Pulp (2) A	49804	49426	4251	3997	4358	4212	51550	3.7
Market Wood Pulp C, E	5031	4789	465	418	432	410	5182	8.5
Waste Paper (3) A	15361	14454	1239	1115	1249	1209	14776	4.4
Rags, Straw & Other C, E	702	607	50	48	44	43	596	0.2
INVENTORIES								
Wood Pulp at Pulp Mills A	107	117	189	189	203	191	191	30.2
Market Pulp at Pulp Mills A	132	239	291	338	373	298	298	27.1
Mkt Pulp at Ppr.& Bd. Mills CE	426	449	488	497	504	520	520	15.0
Waste Ppr.at Ppr.&Bd. Mills (4)	904	1057	1023	1133	1089	1133	1133	18.3
Rags, Straw and Other at Paper and Board Mills C, E	61	71	69	48	44	42	42	-27.6
Mkt Wood Pulp Days of Supply A	38	45	47	53	56	56	56	14.2
Wood Pulp Consumption at at Non Paper Mills C, E	913	825	73	64	62	60	788	-5.4

A - Pulp & Raw Materials Group, API; C - Bureau of the Census; E - Most Recent Month Estimated by API

P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

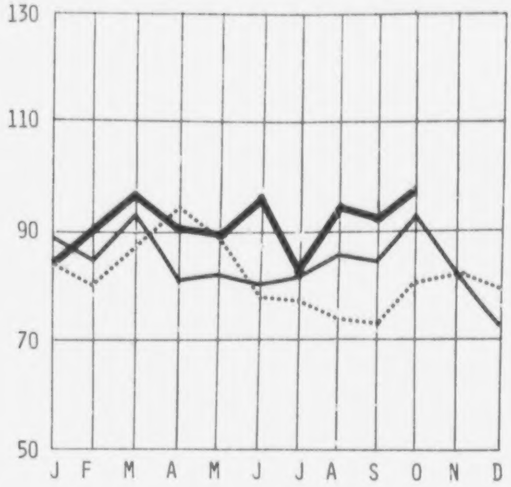
(2) Excl. cons. of defib. & expl. pulp for hard pressed bd.(000 tons): 1979 - 1507; 1980 - 1124; 1981 ARY-T-D - 1258

(3) Census Waste Paper Consumption, (000 tons): 1979 - 12,915; 1980 - 12,705; Jan-Aug'81 ARY-T-D - 13,725

(4) Census data prior to 1979; more recent data are from the Paper Stock Conservation Committee, A.P.I.

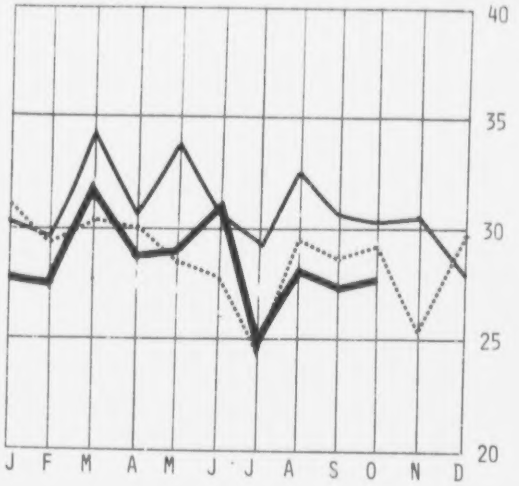
HOUSANDS OF TONS

BLEACHED BRISTOLS
PRODUCTION

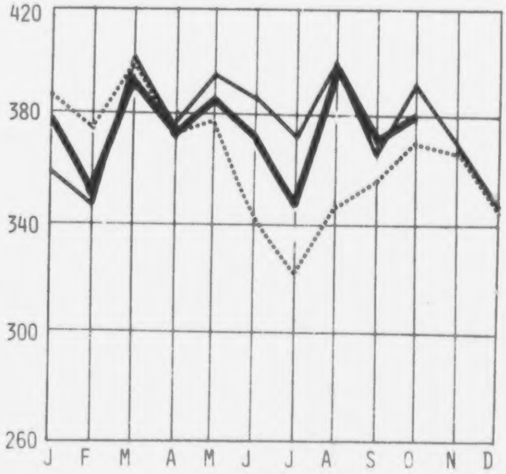


THIN PAPERS
PRODUCTION

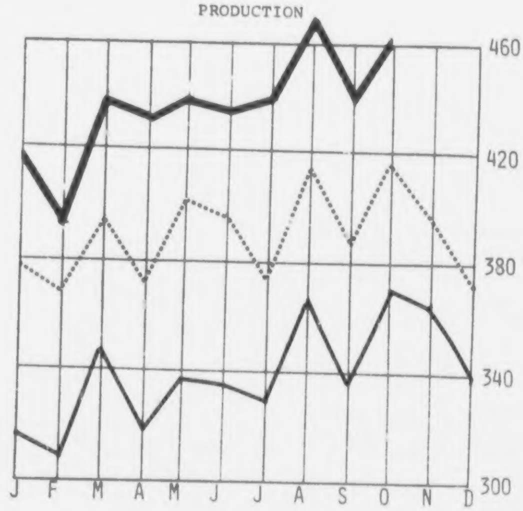
THOUSANDS OF TONS



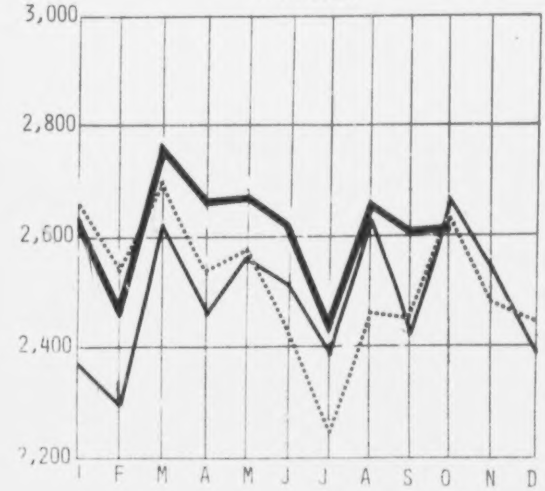
TISSUE PAPER
PRODUCTION



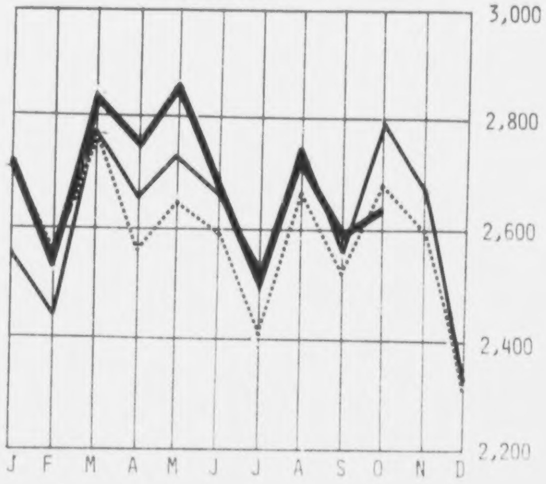
NEWSPRINT
PRODUCTION



TOTAL PAPER
PRODUCTION



TOTAL PAPERBOARD
PRODUCTION



1979 ——— 1980 ········ 1981 ━━━

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic foot) Cords)

PULPWOOD		YEAR 1979	YEAR 1980	JUNE 1981	JULY 1981	AUG. 1981	SEPT 1981	Annual Rate Y-T-D 1981	% Change from same Period Last Year
Total U.S.	- Total Receipts	78625	81805	6649	6799	6839	6774	80148	-3.1
	- Total Consumpt.	79566	80522	6790	6526	6796	6645	80572	-0.6
	- Residues *	30015	29402	2617	2592	2659	2517	31129	6.2
	- Inventories	5506	6285	4985	5464	5552	5693	5693	-10.3
So. Atlantic	- Total Receipts	26126	26742	2081	2007	2009	2117	24961	-8.7
	- Total Consumpt	26523	26691	2101	2035	2083	2062	25327	-7.3
	- Residues *	8858	8776	793	717	748	736	8907	-0.3
	- Inventories	1052	1158	926	900	829	917	917	-24.9
Northeast	- Total Receipts	7461	7710	686	724	677	663	7735	0.7
	- Total Consumpt	7584	7487	620	644	663	642	7749	3.9
	- Residues *	1670	1649	136	94	103	97	1396	-16.0
	- Inventories	674	724	572	650	652	671	671	-9.9
South Central	- Total Receipts	26654	27509	2280	2291	2345	2425	27755	2.1
	- Total Consumpt	26432	27074	2353	2269	2363	2402	27987	3.5
	- Residues *	8669	8001	768	771	739	722	9173	17.6
	- Inventories	1472	1830	1303	1366	1365	1412	1412	-5.1
North Central	- Total Receipts	5630	5514	472	513	487	446	5620	1.6
	- Total Consumpt	5535	5292	539	476	470	427	5699	8.6
	- Residues *	1501	1361	111	109	130	132	1443	4.3
	- Inventories	993	1210	1084	1120	1134	1124	1124	-1.0
West	- Total Receipts	12754	14330	1130	1264	1321	1123	14077	-5.9
	- Total Consumpt	13492	13978	1177	1102	1217	1112	13811	-1.2
	- Residues *	9317	9615	809	901	939	830	10211	7.0
	- Inventories	1315	1363	1100	1428	1572	1569	1569	-10.9

* - Consumption of Residues in Cord Equivalents.
SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

	YEAR 1980 Tons	YEAR 1980 $000	AUG. 1981 Tons	AUG. 1981 $000	SEPT 1981 Tons	SEPT 1981 $000	Annual Rate Y-T-D 1981	% Change from same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	236831	10865	21173	989	9490	545	168241	-17.8
Pulpwood Chips	1723579	45887	138429	4086	99002	3556	1697984	-2.4
Wood Pulp, Total	3853004	1607592	292337	124343	259021	111105	3867995	-0.6
Waste Fibrous Materials, Total	118464	20761	9913	1980	9865	1904	110972	-12.0
Paper,Paperboard&Products,Total	8312713	3036632	590624	246748	597755	252439	7941539	-6.1
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd. *	8262720	2971455	586335	240405	593723	245955	7907752	-5.9
Paper, Total	7719672	2868402	547793	232160	554945	237567	7373311	-5.8
Newsprint	7126839	2578687	499271	204654	513134	215383	6819411	-5.3
Printing,Writing & Rel.Pap.	510412	239837	40173	21334	34903	17054	455870	-15.9
Pack. & Ind. Conv. Paper	77046	45466	7258	5178	6222	4542	89089	14.7
Special Industrial Paper	1418	2077	275	440	147	236	2468	97.7
Tissue Paper	3958	2336	815	554	538	353	6474	33.7
Paperboard, Total	96896	24667	8381	2193	10045	2599	138029	36.6
Wet Machine Board	1464	779	96	49	96	45	1066	-30.3
Construction Paper and Bd. *	444688	77608	30065	6003	28638	5744	395345	-16.3
Convtd Paper&Paperbd Products	49993	65176	4289	6343	4032	6484	33787	-39.0

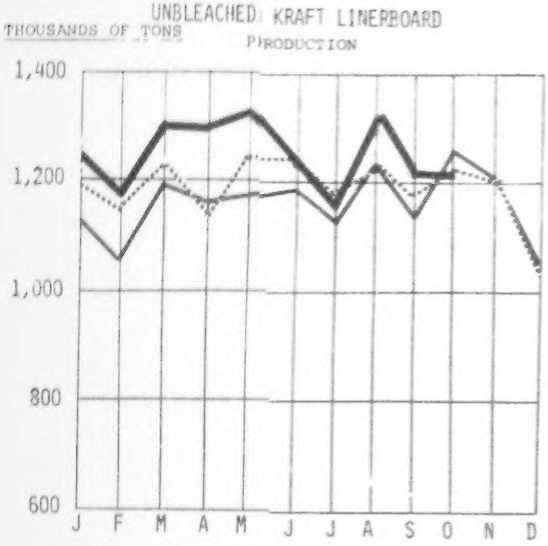
EXPORTS TO CANADA

	YEAR 1980 Tons	YEAR 1980 $000	AUG. 1981 Tons	AUG. 1981 $000	SEPT 1981 Tons	SEPT 1981 $000	Annual Rate Y-T-D 1981	% Change from same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	169622	8862	27998	1461	16382	858	170208	13.9
Pulpwood Chips	23388	934	3018	83	3046	145	38851	67.1
Wood Pulp, Total	147359	51651	15858	7346	11040	5276	129193	-20.8
Cotton Pulp & Other Pulp	10363	5056	366	234	437	258	6560	-44.4
Waste Paper	450762	48737	32742	3794	28806	3438	376939	-21.9
Paper,Paperboard&Products,Total	565979	382416	58092	40389	53183	39583	740428	31.3
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board *	413325	264890	44518	28466	38911	27480	566500	40.0
Paper, Total	216661	180275	24171	19467	19739	18273	297332	41.0
Newsprint	3116	2651	556	300	320	237	9533	382.3
Printing,Writing & Rel.Pap.	117761	91293	14537	10837	11114	9277	176509	56.8
Pack. & Ind. Conv. Paper	16872	11354	2225	1522	2240	1356	25143	74.4
Special Industrial Paper	73079	70135	6476	6474	5307	6979	78316	3.8
Tissue	5834	4842	378	333	758	425	7831	21.4
Paperboard, Total	166459	70926	18133	8144	15872	7869	225985	38.4
Wet Machine Board	4105	2437	370	233	592	370	6960	93.2
Construction Pap. & Bd. E *	26101	11251	1844	622	2708	968	36223	34.5
Convtd Paper&Paperbd Products	152654	117527	13574	11924	14272	12103	173928	9.2
* - Hard Pressed Board (not in total)								
Imports of Hard Pressed Bd.	40723	8181	422	100	1314	314	27161	-29.6
Exports of Hard Pressed Bd.	19807	7314	6086	1729	2390	791	39347	96.8

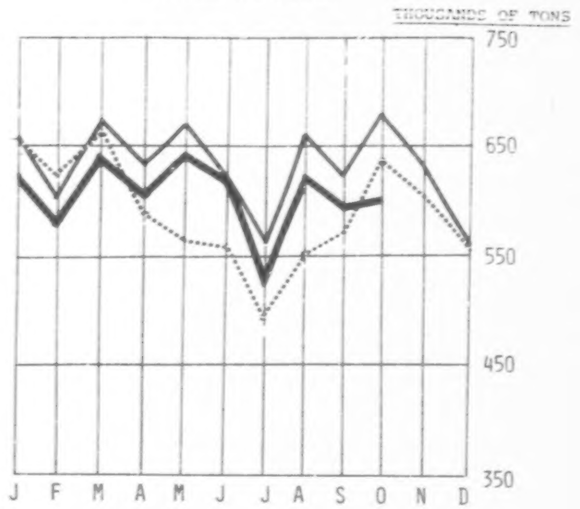
SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

UNBLEACHED KRAFT LINERBOARD

PRODUCTION

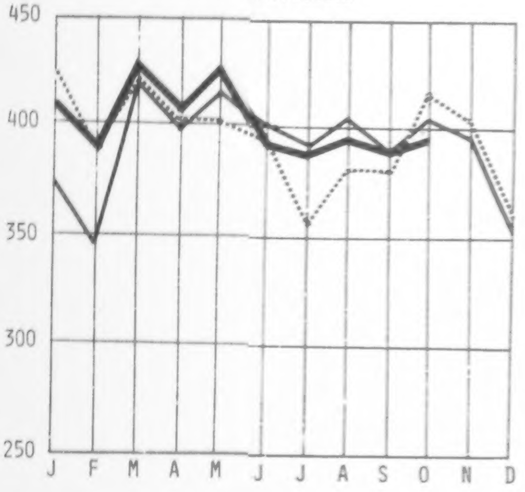


RECYCLED PAPERBOARD



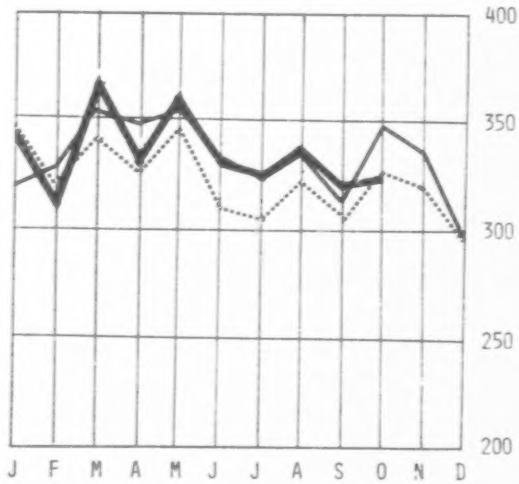
SEMI-CHEMICAL PAPERBOARD

PRODUCTION



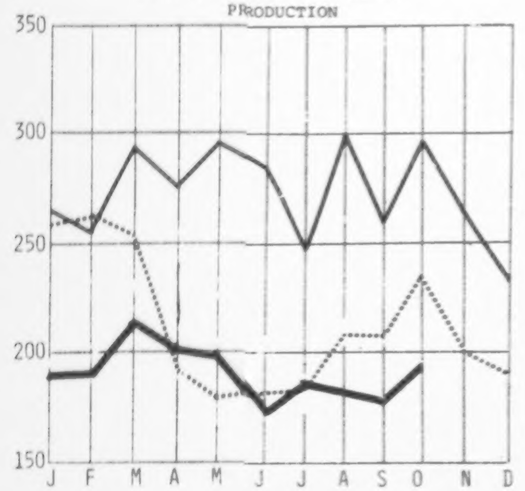
SOLID BLEACHED PAPERBOARD

PRODUCTION



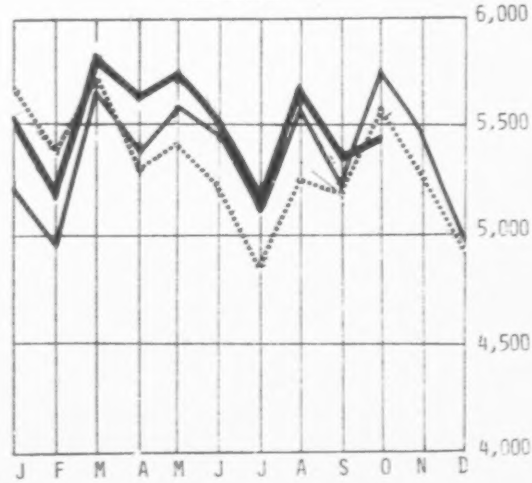
WET MACHINE BOARD AND BUILDING PAPER AND BOARD

PRODUCTION



TOTAL PAPER AND BOARD

PRODUCTION



1979 ——— 1980 ·········· 1981 ▬▬▬

PULP, PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

I M P O R T S

	YEAR 1980		AUG. 1981		SEPT 1981		(1) Annual Rate Y-T-D 1981	% Change from same Period Last Year
	Tons	$000	Tons	$000	Tons	$000		
Pulpwood, Roundwood (in cords of 128 cubic feet)	236818	10866	21173	989	9490	545	168260	-17.8
Pulpwood Chips	1723748	45899	138432	4088	99002	3556	1698008	-2.4
Total All Imports	12957685	5136214	953908	421744	908157	400813	12474840	-3.6
Wood Pulp, Total	4050919	1683835	323375	137257	279288	118392	4111653	-0.4
Waste Paper	87064	17188	5820	1001	5715	933	69291	-22.5
Other Fibrous Materials	41818	14083	5414	2174	4736	1450	53417	14.6
Paper,Paperbd&Products,Total	8777883	3421108	619300	281313	618418	280039	8240479	-7.9
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	8682441	3169796	609840	252904	610258	255258	8148960	-7.9
Paper, Total	8109064	3060491	567722	243833	567715	246226	7577844	-8.1
Newsprint	7279349	2637857	502114	205808	513134	215383	6862924	-6.9
Printing & Writing	739682	363246	56841	31179	47155	24962	608056	-22.5
Uncoated Groundwood	487971	204873	41486	20343	37274	17964	444005	-12.2
Uncoated Book	115528	62466	10939	6160	7233	4209	104885	-16.3
Coated Print.& Impres. Pap	114927	68868	3131	2332	1327	1152	36598	-72.0%
Bristols	1077	739	40	42	28	21	725	-41.7
Writing and Similar Paper	13858	18119	470	1116	509	502	11807	-19.4
Thin (except Cigarette)	6321	8181	774	1186	784	1113	10037	53.2
Total Pks & Other Paper	85912	56929	7929	6274	6805	5423	100161	16.1
Unbleached Kraft Paper	33889	14293	2544	1306	1944	1062	36894	1.0
Other Pks. & Indust. Paper	52023	42636	5385	4968	4861	4362	63268	27.1
Tissue	4121	2461	838	572	621	458	6702	33.0
Paperboard, Total	97583	25576	8522	2366	10046	2604	138981	36.5
Test or Containerboard	43472	11340	3203	808	2390	597	57422	23.3
Semi-Chemical Corrugating	31349	6156	3208	727	4932	1052	51177	65.5
Other Paperboard	22762	8080	2112	831	2724	955	30382	24.9
Wet Machine Board	2116	1335	161	109	126	65	1670	-25.0
Construction Paper & Bd. *	473678	82393	33435	6596	32371	6363	430465	-13.9
Building Paper	435666	73238	30417	5792	30088	5624	387991	-16.5
Insulating Board	20208	4765	2053	585	1447	496	26261	49.5
Other Building Board	17804	4391	965	220	835	243	16213	-10.5
Convtd Paper&Paperbd Products	95442	251312	9460	28409	8160	24781	91519	-10.2
Paper Products, Total	89328	238025	8640	26701	7475	23367	83771	-12.6
Paperboard Products, Total	6114	13287	819	1708	685	1414	7748	27.1
Notes								
Other: No Weight Avail. ($000)		82139		10389		10480	127253	59.7
Total Imports Incl. Other($000)		5218353		432133		411293	5487575	4.1

E X P O R T S

	YEAR 1980 Tons	YEAR 1980 $000	AUG. 1981 Tons	AUG. 1981 $000	SEPT 1981 Tons	SEPT 1981 $000	(1)	% Change
Pulpwood, Roundwood (in cords of 128 cu. ft.)	185526	9389	28828	1499	16480	863	174123	6.0
Pulpwood Chips	4478234	377409	588762	47411	281006	23230	3990572	-13.6
Total All Exports	11832242	4839634	825502	384000	882597	417086	11009155	-7.1
Wood Pulp,Total	3805549	1652099	300415	132318	346815	154948	3762260	-2.6
Cotton Pulp and Other Pulp	140485	92607	8231	5681	9356	6677	131580	-19.2
Waste and Old Paper	2664272	322195	160943	19345	166178	21504	2286867	-16.6
Paper, Paperbd&Products, Total	5213936	2772733	355913	226656	360248	233958	4828449	-5.1
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	4581878	2052406	308945	162443	316143	168287	4209812	-5.4
Paper, Total	907447	737363	81392	67868	86484	70190	1033110	19.4
Newsprint	174869	86403	29073	13850	29804	15032	264516	59.5
Printing & Writing	340859	306098	31050	27396	27276	27014	396961	24.7
Uncoated Groundwood	100951	71716	11767	8324	8680	7004	122150	26.2
Clay Coated Paper	92351	75160	7120	6183	6596	5735	89992	4.4
Uncoated Free Sheet	88313	94826	8390	8549	8436	9489	122923	55.2
Other Printing & Writing	59244	64396	3773	4340	3565	4786	61895	10.[illegible]
Total Pks. & Other Paper	330780	291341	16992	21935	25616	25307	312189	-2.9
Unbleached Kraft	142825	61346	4001	2365	7292	3461	113057	-16.2
Other Pks. & Indust. Paper	187755	229995	12991	19571	18324	21846	199132	6.7
Tissue	40939	53521	4277	4686	3788	2837	59443	-0.1
Paperboard, Total	3608752	1283130	222652	92082	223806	95120	3091640	-12.3
Solid Wood Pulp	3359998	1182718	213358	86331	213101	89095	2904667	-12.6
Total Linerboard	2527245	790070	158568	55647	153137	52422	2104514	-17.1
Bleached Kraft Linerboard	233924	75960	8002	3366	6867	2944	168736	-17.1
Unbleached Kraft Linerbd	2293322	714110	150566	52282	146270	49479	1935778	-17.1
Other Unbleached Kraft	163825	60633	11391	5013	7936	3922	152120	-9.8
Other Bleached Kraft	606044	314751	40421	24628	48168	31513	585012	-1.4
Semi-Chemical Corrugating	62884	17264	2978	1043	3860	1238	63020	157.4
Recycled Paperboard	248754	100412	9294	5751	10705	6025	186973	-6.3
Wet Machine Board	8017	5258	521	412	927	614	10860	46.8
Construction Paper & Bd. *	57662	26655	4380	2081	4926	2364	74202	35.1
Building Paper	31436	13299	1278	841	1831	949	22395	-20.7
Insulating Board E	26226	13356	3102	1240	3094	1415	51807	94.3
Convtd Paper&Paperbd Products	632058	720328	46968	64214	44105	65671	618637	-2.3
Paper Products, Total	378581	523511	28072	46220	28378	49407	361942	-6.1
Paperboard Products, Total	253477	196817	18896	17994	15727	16264	256694	3.5
Notes								
Other: No Weight Avail. ($000)		10300		855		753	10597	2.1
Total Exports Incl. Other($000)		4849934		384855		417838	5037615	5.2
* Hard Pressed Board (not in total)								
Imports of Hard Pressed Board	172023	32469	17456	3703	18930	4418	188925	8.5
Exports of Hard Pressed Board	28900	10706	9183	2779	4321	1470	59887	119.9

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PAPER AND PAPERBOARD PRODUCTION

CENSUS DATA

(Thousands of Tons)

	YEAR 1979	1980	MAY 1981	JUNE 1981	JULY 1981	AUG. 1981	Annual Rate Y-T-D 1981	% Change from same Period Last Year
PAPER					R	P		
Newsprint	3778	4660	432	447	460	459	5259	13.3
Uncoated Groundwood Papers	1800	1538	121	129	111	127	1482	-4.7
Coated Papers	4580	4751	415	422	397	415	4977	6.8
Uncoated Free Sheet (1)	7655	8008	686	664	613	648	7908	-1.8
Cotton Fiber Paper (1)	130	131	11	10	8	9	118	-8.6
Thin Papers	371	333	29	31	25	28	343	2.1
Bleached Bristols	957	941	79	85	69	88	982	0.1
Tissue Paper	4601	4474	379	379	361	385	4542	1.4
Unbleached Kraft Packaging & Industrial Conv. Papers(1)	3911	3718	313	307	277	300	3711	-2.2
Other Paper (1)	1797	1609	127	148	130	156	1642	1.9
TOTAL PAPER GRADES	29580	30164	2592	2622	2451	2615	30965	2.4
PAPERBOARD								
Solid Wood Pulp Furnish	23585	23902	2125	2091	1988	2068	24820	3.1
Unbleached Kraft Linerboard	13857	14249	1257	1255	1171	1267	14832	3.0
Other Unbl. Kraft Paperboard	1046	1036	95	103	100	92	1115	6.2
Bleached Kraft Paperboard	4065	4034	367	351	334	341	4142	1.8
Semi-Chemical Paperboard	4617	4583	406	383	383	368	4731	4.1
Recycled Paperboard	7583	7242	622	643	555	625	7524	5.2
TOTAL PAPERBOARD GRADES	31168	31143	2747	2734	2543	2693	32344	3.6
WET MACHINE BOARD	144	138	13	11	12	14	158	18.4
CONSTR. PAPER & INSUL. BOARD	3131	2420	184	185	173	168	2175	-11.3
TOTAL ALL GRADES [Excl. H.P.B.]*	64023	63865	5536	5552	5179	5489	65641	2.5

PRODUCER PRICE INDEXES

1967 = 100

	1979	1980	JULY	AUG.	SEPT	OCT.		
Pulp, Paper and Products	219.0	249.2	273.8	275.7	276.9	279.1	271.9	9.7
Pulp, Paper & Products, except Waste Paper ♦	219.2	249.9	275.4	277.3	278.5	281.0	273.5	10.1
Total Wood Pulp	314.3	380.3	396.6	396.6	396.6	404.7	394.8	4.3
Total Paper	229.6	256.8	280.0	283.8	287.1	288.6	278.8	9.4
Total Paper, exc. Newsprint	222.8	249.3	272.9	273.6	277.1	279.1	269.7	9.0
Newsprint	249.9	279.7	301.9	314.8	320.0	320.0	306.8	10.6
Total Paperboard	202.1	234.6	261.6	261.2	262.5	262.6	258.1	10.5
Total Paper and Paperboard ♦	220.9	249.9	274.2	276.7	279.4	280.4	272.3	9.8
Converted Products	209.9	238.5	260.8	262.5	263.0	263.9	258.0	8.7
Waste Paper	206.6	208.7	182.1	182.1	178.5	165.1	182.0	-14.2
All Commodities	235.5	268.8	296.0	296.2	295.5	296.0	292.9	9.8
Industrial Commodities	236.4	274.8	306.0	307.0	307.2	308.8	302.9	11.1

(1) - Grade definitions revised by Census as of January 1979. New grades now consistent with API definitions. 1977 and 1978 Census data adjusted by API for comparability with 1979.

* See page 3 for Hard Pressed Board data. ♦ Computed by API P-Preliminary R-Revised

SOURCES: Production - Bureau of Census, U.S. Department of Commerce
Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor

Continued from Page 2

Boxboard production has been holding up fairly well. The January-October 1981 total of boxboard production for domestic use was 3.5% above its year-earlier level, with total folding boxboard for domestic use up 4.2%, the solid bleached boards sector up 6.7%, and clay coated recycled board up 3.9%. Among the other major grades, milk carton stock showed a 5.4% decline while cup stock gained 10.7%.

Paperboard production for export held at its September level in October, but for the entire January-October 1981 period was 23.5% below its year-ago rate. At 2.6 million tons per year, however, the export rate compared favorably with the 2.26 million tons shipped to foreign markets in 1980.

Market Wood Pulp

Total market wood pulp production in the first nine months of 1981 was 4.8% below its comparable 1980 total. However, at 6.2 million tons per year, the 1981 rate was well above the 5.7 million tons produced in 1979. Most of the 1980-1981 decline was in the dissolving pulp grades. As the table on page 5 shows, exports of dissolving pulp, as reported by the American Paper Institute's Pulp and Raw Materials Group, was 13% below their comparable 1980 total.

Production of chemical paper grades, however, held close to its year-ago level, with exports showing a small gain. Preliminary data for October, however, indicate that while production rose from its September level, shipments from pulp mills declined and mill inventories rose sharply. The table on page 5 also shows that market pulp inventories at the end of September were 27% above their year-ago level, equivalent to 56 days of supply.

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Continued from Page 11

New Supply

The new supply (production plus imports less exports) trend of paper and paperboard in the first three quarters of 1981 closely tracked the trends of the real gross national product. Because of an unusually strong September, the third quarter rate of production, adjusted for normal seasonal factors, was the highest for the year. Third quarter imports, however, were 10% below their first half average, reflecting an 11% decline in newsprint imports, while exports fell 9%. The third quarter level of new supply, at 68.9 million tons per year, was, as the table below shows, slightly above its second quarter level and about 0.6% below its first quarter high. Real GNP showed a similar pattern, falling slightly from the first to second quarters and rising just a bit in the third. The third quarter rise, small as it was, has been traced mainly to increases in inventories, leading many economists to suggest a weakening GNP in the fourth quarter. The ratio of paper and paperboard new supply to real GNP in the first three quarters of 1981 remained remarkably flat, holding close to the 1980 average and suggesting that inventory building of the industry's products is about average relative to the economy as a whole.

PAPER AND PAPERBOARD
(Seasonally Adjusted Annual Rates)

YEAR	Production	Imports	Exports	New Supply	Real GNP	NS/Real GNP
	---------000 Tons per Year------------				$ Bil.	Ratio
1979	64,594	9,123	3,672	70,045	1,483.0	47.2
1980	63,701	8,778	5,214	67,265	1,480.7	45.4
1981						
Qtr.1	65,612	8,536	4,829	69,319	1,516.4	45.7
Qtr.2	64,985	8.536	5,132	68,389	1,510.4	45.3
Qtr.3	65,805	7,650	4,524	68,931	1,512.8	45.6

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INDUSTRY FACT SHEET

MERICAN PAPER INSTITUTE, INC.
60 Madison Avenue
ew York, New York 10016

NOVEMBER 25, 1981

	PRODUCTION (000 TONS)					
	Oct. 1981	Sept 1981	Oct. 1980	Jan - Oct. 1981	Jan - Oct. 1980	% Change 81/80
APER GRADES	P	R				
Newsprint	463	441	416	4389	3905	12.4
Uncoated Groundwood (s)	127	110	130	1206	1254	-3.9
Coated Paper (s)	424	434	423	4148	3873	7.1
Uncoated Free Sheet Paper (s)	644	666	697	6642	6708	-1.0
Thin Paper (c)	28	27	29	284	287	-1.3
Cotton Fiber Paper (s)	11	10	12	101	105	-4.0
Bleached Bristols (s)	97	92	80	917	821	11.8
Tissue Paper	380	371	371	3749	3660	2.4
Unbleached Kraft Packaging & Indl. Converting (s)	307	315	337	3272	3313	-1.2
Other Paper (c)	140	140	147	1375	1348	2.0
TOTAL PAPER	2621	2606	2642	26081	25274	3.2
APERBOARD GRADES						
Kraft Linerboard, Unbleached	1213	1215	1227	12472	12005	3.9
Other Kraft Paperboard	96	72	76	929	910	2.1
Semichemical Paperboard	395	390	417	4019	3959	1.5
Bleached Paperboard	324	319	325	3346	3247	3.1
Recycled Paperboard	602	593	638	6055	5914	2.4
TOTAL PAPERBOARD	2629	2590	2683	26822	26036	3.0
CONSTRUCTION & WET MACH GRADES(c)	194	178	236	1927	2166	-11.1
TOTAL PAPER AND PAPERBOARD	5444	5374	5561	54829	53476	2.5
HARD PRESSED BD.[not in total](c)	170	145	195	1683	1617	4.1

OOD PULP (ALL GRADES)	Sept 1981	Aug. 1981	Sept 1980	Jan - Sept 1981	Jan - Sept 1980	% Change 81/80
Dissolving & Special Alpha	102	140	94	1039	1135	-8.5
Bleached Sulphite	115	115	130	1075	1080	-0.4
Unbleached Sulphite	33	40	30	300	289	3.7
Bleached & Semi-Bl. Sulph.	1627	1747	1542	15158	14314	5.9
Unbleached Sulphate	1679	1698	1636	15069	14877	1.3
Semichemical	322	330	327	3035	3046	-0.4
Groundwood and Thermo-Mechanical	427	444	388	3773	3425	10.2
TOTAL PULP DIVISION DATA	4305	4514	4147	39447	38165	3.4
Defib. Exploded & Scrngs E	217	218	222	2003	1808	10.8
TOTAL WOOD PULP PRODUCTION	4522	4733	4369	41449	39974	3.7

ote: Paperboard cumulative totals include revisions not available monthly.

(s) - Shipments R - Revised E - Estimate
P - Preliminary (c) - Census Data - Production, last 2 months estimated.

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November 24, 1981

	Full Year		INDUSTRY DATA 1981			Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1979	1980	August	September	October		
Total Production (API).......! !...	64594	63701	5596	5374	5444	65795	2.5
Total Seasonally Adjusted....! excluding !...			5389	5603	5224	65193	2.9
Imports (including Products).!hard pressed!..E	9123	8778	619	618	620	8160	-8.4
Exports (including Products).! board !..E	3672	5214	356	360	360	4778	-8.7
Apparent Consumption.........! !...	70045 a	67265 b	5653	5862	5484	68576Rc	2.3
Paper Production % Tonnage Capacity...........	95.9 s	92.8 s	90.4	90.7	88.2	91.6sh	-
Paperboard Production % Tonnage Capacity......	94.0 s	91.5 s	91.8	89.3	87.6	93.3s	-
			July	August	September		
MARKET WOOD PULP PRODUCTION - Tons (000).........	5678	6488	479	581	481	6231	-4.8
TOTAL WOOD PULP PRODUCTION - Tons (000)..(f)....	49367	50560	4057	4514	4305	52596	3.4
WOOD PULP IMPORTS - TONS (000)...................	4318	4051	329	323	279	4112	-0.4
WOOD PULP EXPORTS - TONS (000)...................	2935	3806	237	300	347	3762	-2.6
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS			July	August	September		
Wood Pulp..(k)................................	49804	49426	3997	4358	4212	51550	3.7
Waste Paper....(d)............................	15361	14454	1115	1249	1209	14776	4.4
Other (Census)...............................E	702	607	48	44	43	596	0.2
Total.................	65867	64487	5159	5651	5464	66922	3.8
..WOOD PULP - NON PAPER........................F	913	825	64	62	60	788	-5.4
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	79566	80522	6526	6796	6645	80572	-0.6
EMPLOYMENT (000)			August	September	October		
Paper and Allied Products..........Total......	706.8	694.0	700.3	701.5	691.2	693.8	-0.1
Pulp, Paper and Board Mills........Total.....F	271.4	269.0	272.2	270.9	269.0	269.5	0.3
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products......................	7.13	7.84	8.67	8.92	8.73	8.52	9.7
Pulp, Paper Mills............................E	8.26	9.15	10.18	10.56	10.25	9.95	9.8
Paperboard Mills.............................E	8.38	9.28	10.22	10.67	10.29	10.14	10.5
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1981 Q1	1981 Q2	1981 Q3		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	5.55	6.80	6.93	6.42	6.48	6.54	-3.8w
INDEX OF OUTPUT PER MAN-HOUR (1977=100).........			August	September	October		
!IN PULP, PAPER !...Production Works...........	106.0	107.8	108.2	105.6	102.0	107.7	0.1
!AND BOARD MILLS!...All Employees...............	105.3	106.3	106.8	106.1	102.2	106.8	0.8
PAPER AND ALLIED PRODUCTS (Million $)			July	August	September		
Industry Shipments (Dept. of Commerce)*.......	66074	71736	6493	6446	6612	77712	10.0
Pulp, Paper and Paperboard*.................	28771	31952	2812	2820	3019	34147	8.2
Inventories (End of Period) - Total Industry*.	7079	7798	8429	8445	8588	8588	9.8
Pulp, Paper and Paperboard*.................	2435	2794	3051	3122	3137	3137	8.4
			1980 Q4	1981 Q1	1981 Q2		
Sales (Corporations Only, FTC).................	55359	54737	14145	14402	15249	59302	10.2
Earnings (Corporations Only, FTC)..............	3724	2781	689	758	853	3222	9.5
Depreciation (Corporations Only, FTC)..........	1896	1990	518	534	550	2168	12.0
Net Worth (Corporations Only, FTC).............	23206	23873	23873	24340	25000	25000	9.5
PRICE INDEXES (Bureau of Labor Stats)1967=100			August	September	October		
Total Pulp, Paper and Allied Products..........	219.0	249.2	275.7	276.9	279.1	271.9	9.7
Wood Pulp......................................	314.3	380.3	396.6	396.6	404.7	394.8	4.3
Waste Paper....................................	206.6	208.7	182.1	178.5	165.1	182.0	-14.2
Paper..	229.6	256.8	283.8	287.1	288.6	278.8	9.4
Paperboard.....................................	202.1	234.6	261.2	262.5	262.6	258.1	10.5
PAPER DEMAND (INDEXED: 1967=100)			August	September	October		
Total Paper Production *......................	142.9	143.9	148.0	155.2	144.7	148.6	3.6
Paper New Supply *............................	138.2	136.1	134.4	139.6	131.7	137.0	0.7
Total End - Use Index *......................	145.0	146.3	152.2	152.1	151.3	150.5	3.2
Production of Nondurable Goods *...(19%)..	164.1	161.2	167.4	166.1	163.9	166.0	3.3
Disposable Income (Constant $) *...(23%)..	150.0	151.0	155.1	154.7	155.1	154.0	2.2
Total Printing and Publishing *...(58%)..	136.8	139.5	146.1	146.4	145.6	144.0	3.6
Trend Factor	--------------------	--------	--------	Not Available	--------	--------	--------
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *................	137.9	135.4	138.9	142.8	132.3	139.3	3.4
Production for Domestic Use	135.5	128.3	133.8	141.1	129.9	135.5	6.7
Total End - Use Index *......................	152.0	146.1	151.7	150.1	148.1	150.6	3.5
Production of Consumer Goods *...(60.49%)	150.6	145.4	149.6	148.3	147.0	148.9	2.7
Production of Equipment *...(6.62%)	142.2	145.2	154.0	153.2	152.6	151.8	4.9
Production of Materials *...(32.89%)	156.4	147.6	155.2	152.8	149.3	153.5	4.5
Trend Factor	--------------------	--------	--------	Not Available	--------	--------	--------
NEWSPRINT MARKETS			July	August	September		
Consumption by Publishers - Tons (000).........	11240	11121	873	915	924	10935	0.7
Newspaper Pub. and Printing Empl. Total(000)..	420.1	422.8	433.0	434.0	433.5	429.8	1.9
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)..........	114956	117296	7815	7585	11353	113809	1.1
WHOLESALERS SALES AND INVENTORIES (Million $)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	19271	21643	2078	2081	2219	24639	16.3
Inventories (End of Period)	1671	1849	2058	2052	2067	2067	18.1
Paper Only...............................Sales	14510	15879	1534	1505	1610	17859	14.5
Inventories (End of Period)	1124	1248	1373	1366	1368	1368	15.1
RETAIL TRADE (Million $)			August	September	October		
Total Retail Sales *..........................	892496	953984	88591	88536	87179	1044332	10.5
Nondurable Goods Stores Sales *..............	588697	656231	60152	60137	60333	713501	9.7
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	152.5	147.0	153.6	151.8	149.5	152.2	3.9
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	235.5	268.8	296.2	295.5	296.0	292.9	9.8
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	217.4	246.8	276.5	279.3	279.9	270.6	10.6
			July	August	September		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	312.0	313.4	320.9	324.7	328.3	328.3	7.0
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$).			1981 Q1	1981 Q2	1981 Q3		
G.N.P. or Expenditure - Current $.............	2413.9	2626.1	2853.0	2885.8	2956.6	2898.5	11.9
G.N.P. OR Expenditure - 1972 $................	1483.0	1480.7	1516.4	1510.4	1512.8	1513.2	2.3

lb/capita	Popul.(mil)
.a - 622	225.1
.b - 591	227.7
.c - 602	229.3

.d - 1979 - 12915; 1980 - 12705
. Jan-Aug.'81 ARY-T-D - 13725
. (000 tons) as pub. by Census
.E - Last month estimated by API

f - Wood Pulp Production excludes estimates for def. expl. & scrngs. Prod. was: 1979 - 3,274; 1980 - 2451; 1981 Jan-Sep ARY-T-D 2671 (000 tns)
s - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
k - Excludes consumption of defib. & expl. pulp for hard p. bd.: '79 - 1,507; '80 - 1,124 (000 tons) 1981 ARY-T-D - 1258

N.A. - Not Available
P - Preliminary
Q - Quarter
R - Revised
RS - Revised Series
w - Full year estimated by U.S. Dept. of Commerce
* - Seasonally adjusted

A2500-2

1/15/82

Paper
Paperboard
& Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 59 - No. 12 **December, 1981**

Production Declines

The downtrend in paper and paperboard production that started in October 1981 continued through November. The seasonally adjusted rate of production in the October-November months was down to 62.9 million tons per year, compared to 65 million tons per year in the September-October period and 65.7 million tons per year in August-September. (A two-month moving average is used to smooth out the random fluctuations in the seasonally adjusted data.)

These declines followed relatively high rates of production so that output in the first eleven months of the year was at a seasonally adjusted rate of 65 million tons per year, 2.4% over its year-ago level. This compares to 63.7 million tons produced in 1980 and 64.6 in 1979, a year of record-high production. The current weakness in production appears to be continuing into December, suggesting that total production for 1981 will probably be fairly close to the 1979 high, and perhaps even exceeding it a bit to establish a new high.

Declines in the paperboard sector appear to be somewhat steeper than those in paper, consistent with the importance of paperboard as a raw material for packaging products. Nevertheless, for the entire January-November 1981 period, production of both paper and paperboard was above year-ago levels; paper up 3.6% on a seasonally adjusted basis, paperboard up 2.6%. On the assumption that the rate of paper production will decline a little further in December, the 1981 total will probably be close to 31 million tons, about 2.5% above the record high 30.2 million tons produced in 1980. On this same basis, paperboard production will probably be close to the record high 31.4 million tons produced in 1979, and about 1.5% above the 1980 total.

The major declines are occuring in the construction grades. Total construction paper and paperboard, plus wet machine board, is pointing to a total of 2.16 million tons, about 15% below the 1980 total and nearly 45% below the 3.27 million tons produced in 1979. These grades are, of course, strongly affected by the declines in residential housing activity.

The detailed trends of production of paper and paperboard by grade are shown in the table on page 3.

Continued from Page 1

Imports, Exports, New Supply

According to the Department of Commerce, imports of wood pulp, paper and paperboard rose sharply in October from the September level. Imports of wood pulp, for example, amounted to 406,000 tons, compared to 279,000 in September, and a 349,000 ton monthly average for the entire January-October period. Newsprint imports rose to a high for the year of 649,000 tons, compared to a ten-month average of about 580,000 tons per month. Imports of printing/writing papers also made a high for the year at 68,000 tons, compared to its 52,000 tons per month average for the ten month period.

Exports, by way of contrast, fell sharply, with wood pulp exports at 275,000 tons, 21% below the September level. Exports of paper, paperboard and products at 330,000 tons were at a low point for the year. Paperboard exports, according to the Bureau of the Census, amounted to 207,000 tons, and this too, was the lowest level achieved in the year.

While no data are available for the Bureau of the Census on November exports, API data show an unexpected rise in production of paperboard for exports in that month. As shown in the table on page 3, paperboard production for exports in November, 1981, rose to 205,000 tons, with the gain concentrated in kraft paperboard. Even with this gain, however, the 11-month production rate for exports was about 24% below the peak rate reached in 1980. It is interesting to note that the 11-month rate of exports was 14% above the total paperboard produced for export in 1979, which was the previous all-time high.

Total new supply (production plus imports less exports) in October, 1981, drifted down to 68.6 million tons per year, compared to a 68.8 million ton per year average for the August-September period. This rate of new supply in October was consistent with the trend in the real gross national product, with the estimated ratio of new supply to real GNP holding close to the average level for the preceeding three quarters. This suggests that the level of inventories of paper and paperboard products held by producers and consumers is moving with the general national trends. Future demand for paper and paperboard will therefore continue to reflect the trend of total economic activity, with only a modest effect from possible inventory changes.

PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS

(Thousands of Tons)

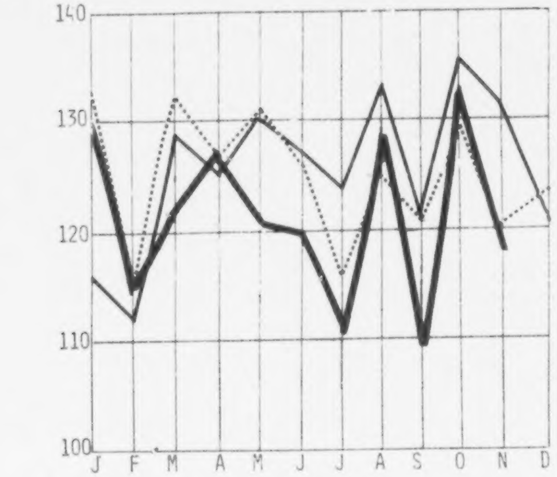
	YEAR 1979	YEAR 1980	AUG. 1981	SEPT 1981	OCT. 1981	NOV. 1981	Annual Rate Y-T-D 1981	% Change from same Period Last Year
PAPER					R	P		
Newsprint - Production	4062	4672	469	441	463	438	5265	12.3
- Shipments	4066	4667	455	452	460	438	5242	12.4
Printing & Writing	15413	15605	1329	1334	1392	1275	15957	2.2
Groundwood Paper - Shipments	1509	1498	126	110	133	118	1451	-3.2
- New Orders	1519	1475	130	119	117	98	1427	-4.2
- Unfilled Orders	149	110	122	134	117	90	90	-27.1
Coated Paper - Shipments	4527	4673	422	434	439	399	4976	6.8
- New Orders	4547	4753	424	409	443	396	4911	3.3
- Unfilled Orders	385	391	340	319	324	317	317	-18.9
Unctd Free Sheet - Shipments	7823	7983	647	661	687	628	7974	-0.5
- New Orders	7836	7694	633	627	680	568	7762	0.5
- Unfilled Orders	781	546	475	446	441	363	363	-36.3
Thin Paper - Production	372	343	28	27	28	24	336	-1.6
Cotton Fiber Paper - Shipments	125	126	9	10	11	9	120	-5.2
Bleached Bristols - Production	1058	982	96	92	94	96	1101	11.8
Tissue Paper - Production	4520	4375	395	372	389	370	4505	2.5
Total Packaging & Other Paper	5895	5539	473	449	447	449	5538	-0.6
Unbl. Kraft Paper - Shipments	4098	3930	330	315	307	319	3917	-1.0
Other Paper - Production * #	1797	1609	143	134	140	130	1621	0.5
TOTAL PAPER-Production-Unadj.	29890	30191	2666	2596	2691	2531	31285	3.3
-Production-S.A.			2571	2698	2592	2559	31134	3.6
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	23838	23881	2115	1997	2027	1939	24769	2.6
Unbl. Kraft Linerboard (1)	13951	14232	1318	1215	1217	1175	14892	3.4
Production for Export	1645	2380	180	128	130	151	1864	-23.0
Other Unbl. Kraft Paperboard	1200	1063	65	72	94	77	1097	1.3
Semichemical Paperboard	4689	4723	396	390	396	370	4790	0.6
Production for Export	98	322	11	10	9	9	144	-54.8
Solid Bleached Paperboard	3998	3862	336	319	319	316	3990	2.6
Production for Export	491	545	49	45	45	45	555	0.6
Recycled Paperboard	7591	7071	622	593	601	551	7206	1.4
Production for Export	22	83	1	1	1	1	21	-75.3
TOTAL PAPERBOARD-Prod.-Unadj.	31429	30852	2737	2590	2628	2491	31976	2.3
- Containerboard Prod.(Dom. Use)	18825	18070	1668	1620	1634	1538	19537	7.1
- Boxboard Prod.(Dom. Use) (2)	5776	5477	477	454	469	443	5682	2.8
- All Other P'bd Prod.(D.U.) (2)	4571	4075	349	332	339	305	4173	2.0
- Total Paperbd Prod. for Export	2257	3329	242	184	185	205	2584	-23.5
TOTAL PAPERBOARD PROD. - S.A.			2642	2715	2515	2513	31630	2.6
WET MACHINE BOARD *	144	138	14	13	14	12	157	15.0
BUILDING PAPERS *	1868	1369	90	82	90	80	1191	-14.1
INSULATING BOARD *	1263	1051	76	59	60	60	859	-19.0
TOTAL ALL GRADES - Unadjusted	64594	63701	5582	5340	5482	5173	65448	2.1
- Production - S.A.			5376	5570	5262	5228	64858	2.4
HARD PRESSED BD. [not in total]*	2306	1870	166	149	170	150	2004	2.2

* Census Data - Production. Last two months estimated.
# 1981 data estim. by API to conform to revised data for prior years.
(1)Includes all exports of kraft paperboard.
(2)Data for unbl. kraft folding boxb_ard incl. in aAll Other P'bd.

S.A. Seasonally Adjusted
P Preliminary
R Revised

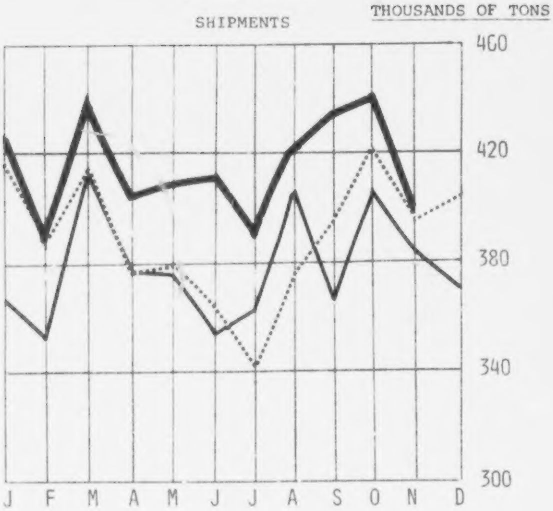
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



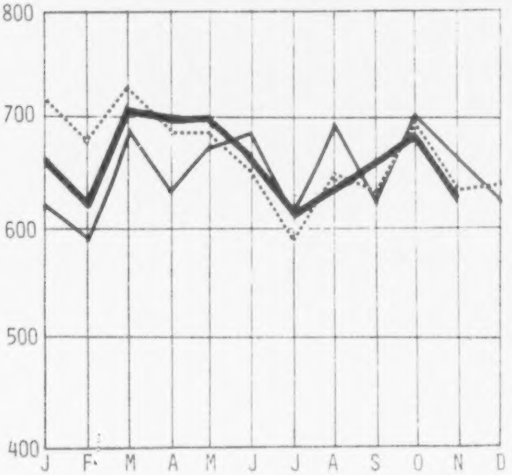
COATED PAPER

SHIPMENTS



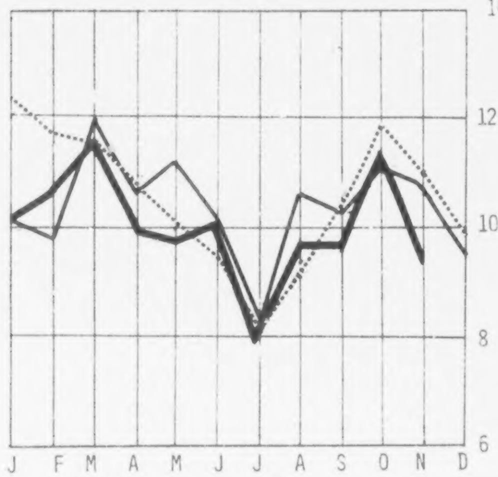
UNCOATED FREE SHEET PAPERS

SHIPMENTS



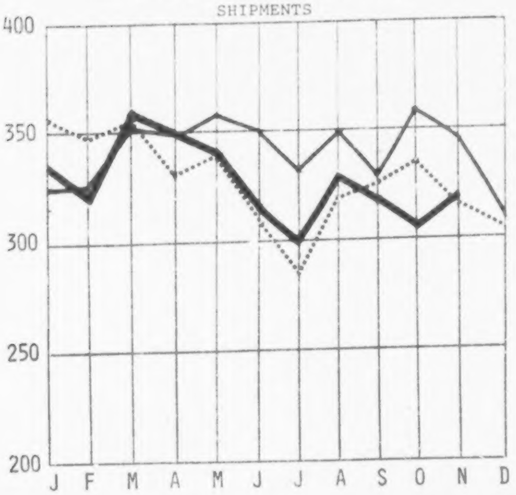
COTTON FIBER PAPER

SHIPMENTS



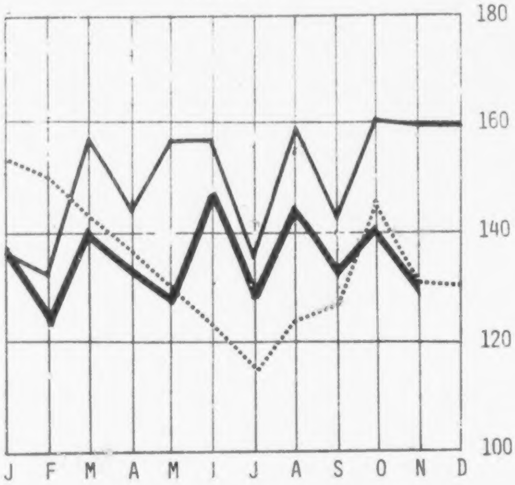
UNBLEACHED KRAFT PACKAGING
AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1979 —— 1980 ········ 198 ━━

WOOD PULP STATISTICS
(Thousands of Tons)

	YEAR							
	1979	1980	JULY 1981	AUG. 1981	SEPT 1981	OCT. 1981	Annual Rate Y-T-D 1981	% Change From same Period Last Year
TOTAL WOOD PULP (1)					R	P		
Total Wood Pulp - Production	49367	50560	4057	4514	4305	4463	52691	3.4
- Imports	4318	4051	329	323	279	406	4188	2.8
- Exports	2935	3806	237	300	347	275	3715	-4.3
- New Supply	50750	50805	4149	4537	4237	4595	53164	3.9
Dissolving Pulp - Production	1497	1508	102	140	102	113	1382	-8.5
- Imports	193	263	29	14	28	32	254	-4.5
- Exports	764	769	65	65	63	62	775	-2.9
- New Supply	926	1002	66	89	67	83	861	-12.0
Paper Grades Chemical Pulp - Production	39416	40430	3255	3600	3453	3601	42241	3.5
- Imports	3923	3615	296	290	246	349	3741	2.8
- Exports	2100	2956	170	234	283	211	2917	-2.7
- New Supply	41239	41089	3381	3656	3416	3739	43065	3.9
Groundwood and Thermo-Mech. - Production	4394	4579	387	444	427	423	5034	9.8
- Imports	201	173	4	20	5	25	193	13.9
- Exports	70	81	1	2	1	2	24	-72.8
- New Supply	4525	4672	389	462	432	446	5204	11.5
Semi-Chemical - Production	4060	4043	313	330	322	326	4033	-0.9
- Imports	0	0						
- Exports	0	0	------	Included	with	Groundwood	Pulp ------	
- New Supply	4060	4043	313	330	322	326	4033	-0.9
MARKET WOOD PULP								
Total Market Wood Pulp - Production	5678	6488	479	581	478	559	6275	-4.1
- Imports	3046	2947	217	237	244	263	2961	0.4
- Exports	2795	3513	206	287	353	216	3328	-5.7
- New Supply	5929	5921	489	532	369	606	5908	-0.9
Dissolving Pulp - Production	1497	1506	102	139	102	112	1348	-10.7
- Imports	306	235	23	10	21	26	244	5.8
- Exports	869	876	49	72	93	45	765	-13.6
- New Supply	934	865	77	78	30	94	826	-3.1
Paper Grades Chemical Pulp - Production	4118	4913	376	441	376	447	4926	-0.8
- Imports	2734	2687	191	225	219	234	2665	-1.2
- Exports	1980	2588	156	214	260	171	2550	-1.4
- New Supply	4972	5012	411	451	335	510	5041	-0.7
Groundwood Pulp and All Other - Production	63	69	0	1	0	0	2	-97.8
- Imports	7	26	3	2	4	3	52	160.4
- Exports	46	50	1	0	0	0	12	-78.8
- New Supply	24	44	2	3	3	2	42	15.0

(1) Prodctn excludes defibrated, exploded & screenings-(000 tons): 1979 - 3,274; 1980 - 2,451; '81 ARY-T-D - 2,622

SOURCES: Total Wood Pulp Imports & Exports - Department of Commerce. Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp & Raw Materials Group, API.

FIBROUS RAW MATERIALS
(Thousands of tons)

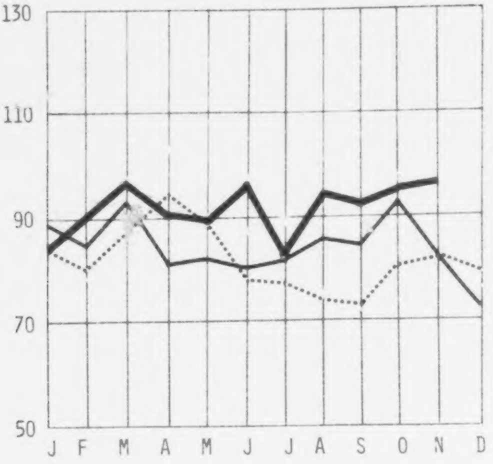
CONSUMPTION AT PAPER & BD. MILLS					R	P		
Total	65867	64553	5159	5651	5498	5668	67072	3.8
Total Wood Pulp (2) A	49804	49426	3997	4358	4244	4362	51667	3.7
Market Wood Pulp C, E	5031	4789	416	430	436	450	5233	9.0
Waste Paper (3) A	15361	14520	1115	1249	1209	1261	14812	4.4
Rags, Straw & Other C, E	702	607	48	45	45	45	594	-1.2
INVENTORIES								
Wood Pulp at Pulp Mills A	107	117	189	203	191	195	195	46.5
Market Pulp at Pulp Mills A	132	239	338	373	296	406	.406	71.2
Mkt Pulp at Ppr.& Bd. Mills CE	426	449	497	505	482	500	500	13.8
Waste Ppr.at Ppr.&Bd. Mills (4)	904	1057	1133	1089	1133	1148	1148	17.6
Rags, Straw and Other at Paper and Board Mills C, E	61	71	48	48	44	45	45	-31.6
Mkt Wood Pulp Days of Supply A	38	45	53	56	50	58	58	24.6
Wood Pulp Consumption at at Non-Paper Mills C, E	913	825	64	62	67	70	802	-3.3

A - Pulp & Raw Materials Group, API; C - Bureau of the Census; E - Most Recent Month Estimated by API
P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons
(2) Excl. cons. of defib. & expl. pulp for hard pressed bd.(000 tons): 1979 - 1507; 1980 - 1124; 1981 ARY-T-D - 1258
(3) Census Waste Paper Consumption, (000 tons): 1979 - 12,915; 1980 - 12,705; Jan-Sep'81 ARY-T-D - 13,680
(4) Census data prior to 1979; more recent data are from the Paper Stock Conservation Committee, A.P.I.

THOUSANDS OF TONS

BLEACHED BRISTOLS

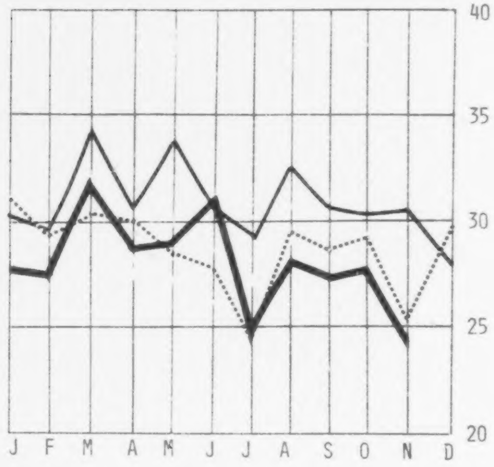
PRODUCTION



THIN PAPERS

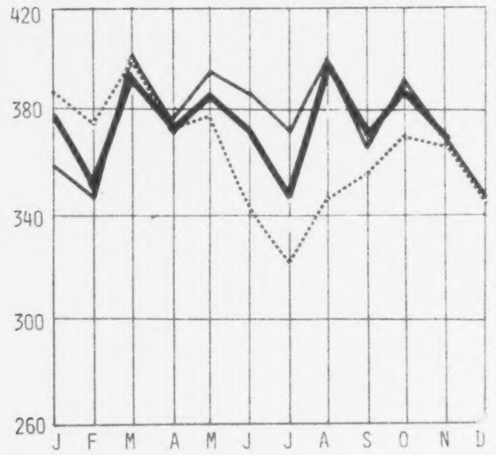
PRODUCTION

THOUSANDS OF TONS



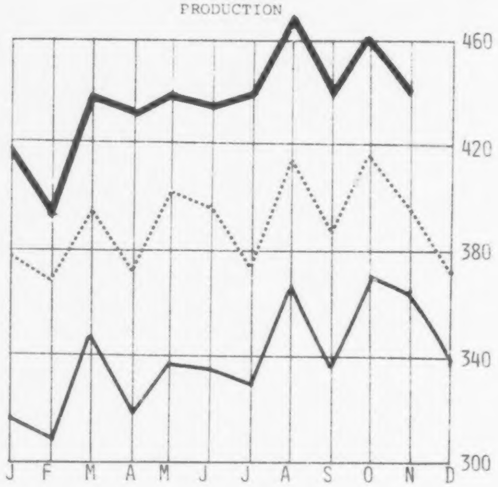
TISSUE PAPER

PRODUCTION



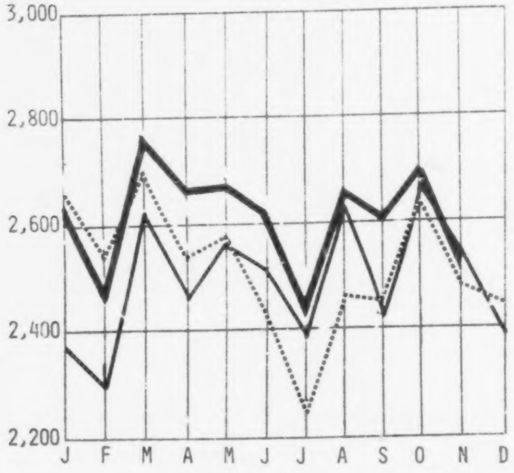
NEWSPRINT

PRODUCTION



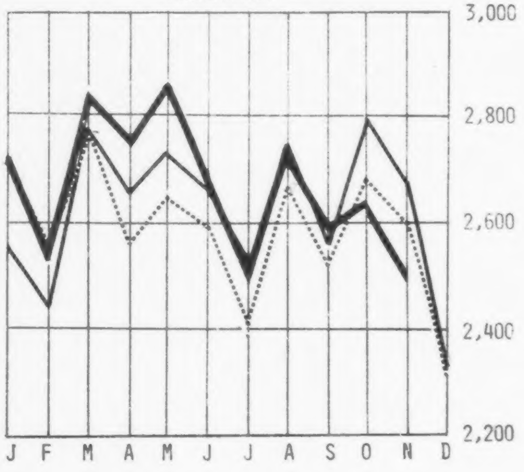
TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1979 —— 1980 ········ 1981 ▬

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic foot) Cords)

		YEAR 1979	YEAR 1980	JULY 1981	AUG. 1981	SEPT 1981	OCT. 1981	Annual Rate Y-T-D 1981	% Change From same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	78625	81805	6799	6839	6774	7206	80780	-2.3
	- Total Consumpt.	79566	80522	6526	6796	6645	7058	80984	-0.1
	- Residues *	30015	29402	2592	2659	2517	2680	31232	5.9
	- Inventories	5506	6285	5464	5552	5693	5917	5917	-7.5
So. Atlantic	- Total Receipts	26126	26742	2007	2009	2117	2151	25046	-7.8
	- Total Consumpt	26523	26691	2035	2083	2062	2076	25285	-6.9
	- Residues *	8858	8776	717	748	736	756	8923	0.3
	- Inventories	1052	1158	900	829	917	1000	1000	-9.6
Northeast	- Total Receipts	7461	7710	724	677	663	767	7882	2.1
	- Total Consumpt	7534	7487	644	663	642	724	7843	5.1
	- Residues *	1670	1649	94	103	97	107	1365	-17.0
	- Inventories	674	724	650	652	671	704	704	-0.7
South Central	- Total Receipts	26654	27509	2281	2345	2425	2553	28043	2.4
	- Total Consumpt	26432	27074	2269	2363	2402	2487	28172	3.8
	- Residues *	8669	8001	771	739	722	791	9205	16.5
	- Inventories	1472	1830	1366	1365	1412	1546	1546	-2.7
North Central	- Total Receipts	5630	5514	513	487	446	485	5640	1.1
	- Total Consumpt	5535	5292	476	470	427	501	5730	8.3
	- Residues	1501	1361	109	130	132	115	1436	2.7
	- Inventories	983	1210	1120	1134	1124	1118	1118	-10.5
West	- Total Receipts	12754	14330	1264	1321	1123	1250	14170	-4.6
	- Total Consumpt	13492	13978	1102	1217	1112	1270	13954	-0.6
	- Residues *	9317	9613	301	939	830	911	10283	6.7
	- Inventories	1315	1363	1428	1572	1569	1549	1549	-11.1

* - Consumption of Residues in Cord Equivalents.
SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

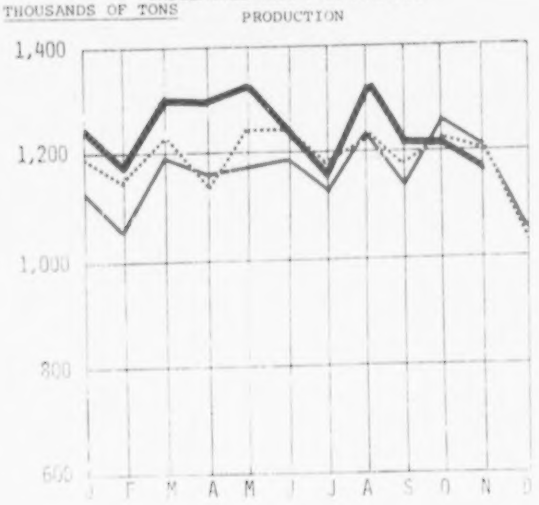
	YEAR 1980 Tons	YEAR 1980 $000	SEPT 1981 Tons	SEPT 1981 $000	OCT. 1981 Tons	OCT. 1981 $000	Annual Rate Y-T-D 1981	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	236831	10665	5490	545	20801	1140	175376	-11.2
Pulpwood Chips	1723579	45687	99002	3556	152139	4038	1710752	1.5
Wood Pulp, Total	3853004	1607552	259021	[illegible]	363859	159926	3917826	1.5
Waste Fibrous Materials, Total	118464	20761	9865	1904	10321	1602	112260	-8.5
Paper,Paperboard&Products,Total	8312713	3036632	597755	252439	747985	320959	8044967	-4.4
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd. *	8262720	2971455	583723	245955	743689	313808	8009403	-4.2
Paper, Total	7719672	2868402	554845	237567	699636	304044	7473543	-4.0
Newsprint	7126839	2578687	513134	215383	645008	273862	6911479	-3.6
Printing,Writing & Rel.Pap.	510412	239637	34903	17054	47397	24999	467159	-12.4
Pack. & Ind. Conv. Paper	77046	45466	6222	4542	6125	4203	[illegible]	12.8
Special Industrial Paper	1418	2077	147	236	226	302	[illegible]	67.4
Tissue Paper	3958	2336	538	353	880	578	6803	52.0
Paperboard, Total	36896	24567	10045	2599	11889	3107	138493	35.0
Wet Machine Board	1464	779	96	45	117	58	1100	-24.5
Construction Paper and Bd. *	444689	77208	28638	5744	32047	6002	[illegible]	-16.3
Convtd Paper&Paperbd Products	49993	65175	4032	6484	4296	7152	35563	[illegible]

EXPORTS TO CANADA

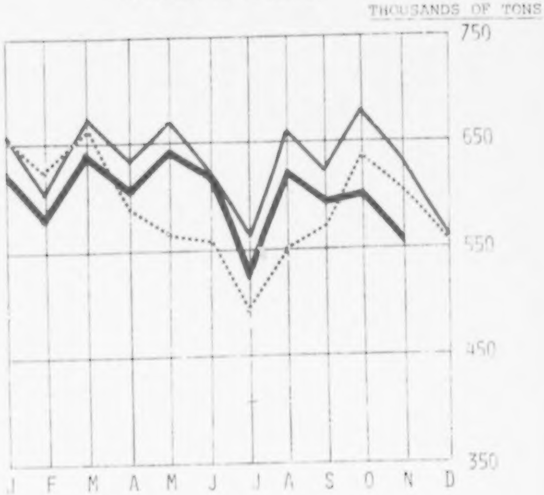
	YEAR 1980 Tons	YEAR 1980 $000	SEPT 1981 Tons	SEPT 1981 $000	OCT. 1981 Tons	OCT. 1981 $000	Annual Rate Y-T-D 1981	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	169622	8862	16352	836	19992	1307	177178	11.4
Pulpwood Chips	23388	834	3048	145	2585	120	36059	55.8
Wood Pulp, Total	147359	51651	11040	5275	8538	4315	126520	-15.1
Cotton Pulp & Other Pulp	10363	5058	437	259	558	367	6374	-42.3
Waste Paper	450762	48727	28806	3438	28367	3397	373285	-20.4
Paper,Paperboard&Products,Total	565975	382416	53183	39583	47177	36521	722986	28.0
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board *	413325	264890	38911	27480	35403	25271	552333	36.7
Paper, Total	215661	180275	19739	18273	19046	17751	290454	38.8
Newsprint	3118	2651	320	237	555	400	9245	350.3
Printing,Writing & Rel.Pap.	117761	91293	11114	9277	11539	9633	172705	52.3
Pack. & Ind. Conv. Paper	16872	11354	2240	1356	1936	1189	24952	60.0
Special Industrial Paper	73079	70135	5307	6979	4565	6000	75962	5.5
Tissue	5834	4842	758	425	452	328	7590	20.5
Paperboard, Total	166459	70926	15872	7869	13973	6574	220155	33.6
Wet Machine Board	4105	2437	592	370	659	349	7055	94.4
Construction Pap. & Bd. E *	26101	11251	2708	968	1724	598	34670	32.4
Convtd Paper&Paperbd Products	152654	117527	14272	12103	11774	11250	170664	9.1
* - Hard Pressed Board (not in total)								
Imports of Hard Pressed Bd.	40723	8181	1314	314	2036	496	26886	-32.8
Exports of Hard Pressed Bd.	19807	7314	2390	791	3210	900	39264	92.2

SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

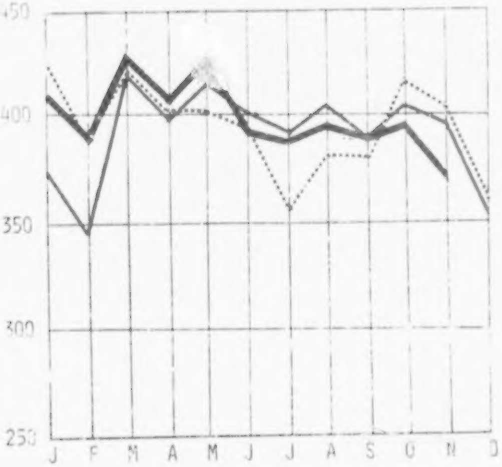
UNBLEACHED KRAFT LINERBOARD
PRODUCTION



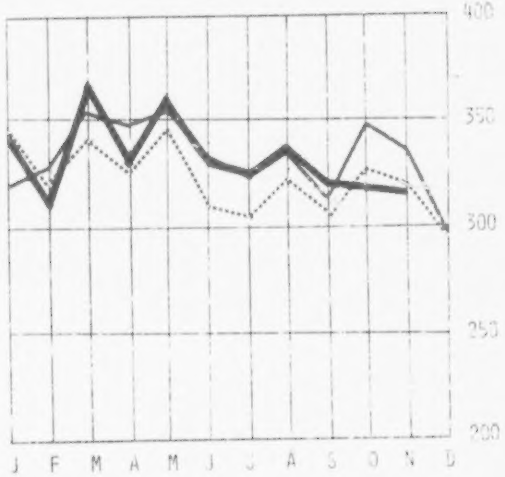
RECYCLED PAPERBOARD



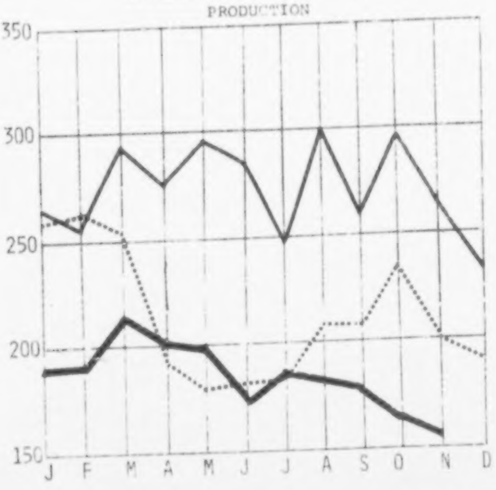
SEMI-CHEMICAL PAPERBOARD
PRODUCTION



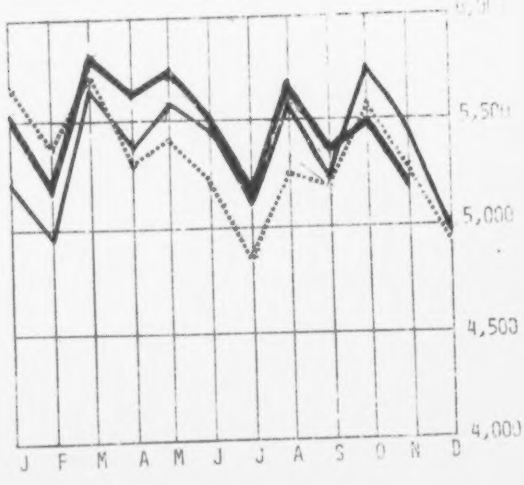
SOLID BLEACHED PAPERBOARD
PRODUCTION



WET MACHINE BOARD AND
BUILDING PAPER AND BOARD
PRODUCTION



TOTAL PAPER AND BOARD
PRODUCTION



1979 ——— 1980 ·········· 1981 ━━━

PULP, PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 1980 Tons	YEAR 1980 $000	SEPT 1981 Tons	SEPT 1981 $000	OCT. 1981 Tons	OCT. 1981 $000	(1) Annual Rate Y-T-D 1981	% Change From same Period Last Year
Pulpwood Roundwood (in cords of 128 cubic feet)	236818	1080[illegible]	9490	545	20801	1140	176395	-11.1
Pulpwood Chips	1723748	45899	99002	3556	152139	4038	1710774	1.5
Total All Imports	12957685	5136214	908157	400813	1201394	541676	12669029	-3.4
Wood Pulp, Total	4050919	1683835	279288	118392	406032	175351	4187726	2.8
Waste Paper	87064	17188	5715	933	6388	961	70027	-20.7
Other Fibrous Materials	41818	14083	4736	1450	4964	1703	54032	21.6
Paper,Paperbd&Products,Total	8777883	3421108	618418	280039	784011	363661	8357244	-6.2
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	8682441	3169796	610259	255258	773411	331152	8262158	-6.2
Paper, Total	8109064	3060491	567715	246226	725526	320610	7690691	-6.2
Newsprint	7279349	2637857	513134	215383	648721	275345	6955097	-5.2
Printing & Writing	739682	363246	47155	24962	68414	38254	629347	-18.3
Uncoated Groundwood	487971	204873	37274	17964	48051	23763	457266	-7.9
Uncoated Book	115528	62466	7233	4209	11599	6755	108314	-12.9
Coated Print.& Impres. Pap	114927	68868	1327	1152	5035	3477	38980	-69.6
Bristols	1077	739	28	21	224	74	922	-23.4
Writing and Similar Paper	13858	18119	509	502	1698	1864	12664	-9.0
Thin (except Cigarette)	6321	8181	784	1113	1807	2321	11201	71.6
Total Pkg & Other Paper	85912	56929	6805	5423	7477	6386	99118	14.9
Unbleached Kraft Paper	33889	14293	1944	1062	2138	1014	35770	2.0
Other Pkg. & Indust. Paper	52023	42636	4861	4362	5339	5372	63348	23.7
Tissue	4121	2461	621	458	915	625	7129	51.1
Paperboard, Total	97583	25576	10046	2604	11995	3230	139477	39.0
Test or Containerboard	43472	11340	2390	597	1783	469	53819	19.9
Semi-Chemical Corrugating	31349	6156	4932	1052	6969	1596	54423	75.3
Other Paperboard	22762	8080	2724	955	3243	1166	31236	28.0
Wet Machine Board	2116	1335	126	65	197	153	1740	-19.6
Construction Paper & Bd. *	473678	82393	32371	6363	35693	7159	430250	-14.3
Building Paper	435666	73238	30088	5624	31749	5970	387291	-16.9
Insulating Board	20208	4765	1447	496	2400	690	26515	41.3
Other Building Board	17804	4391	835	243	1544	498	16443	-5.4
Convtd Paper&Paperbd Products	95442	251312	8160	24781	10599	32509	95086	-5.6
Paper Products, Total	89328	238025	7475	23367	9864	30931	87231	-7.9
Paperboard Products, Total	6114	13287	685	1414	735	1578	7855	29.5
Notes								
Other: No Weight Avail. ($000)		82139		10480		12025	128958	58.2
Total Imports Incl. Other($000)		5218353		411293		553701	5603258	6.7

EXPORTS

	YEAR 1980 Tons	YEAR 1980 $000	SEPT 1981 Tons	SEPT 1981 $000	OCT. 1981 Tons	OCT. 1981 $000	(1) Annual Rate Y-T-D 1981	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cu. ft.)	185526	9389	16480	863	20053	1310	180774	4.3
Pulpwood Chips	4478234	377409	281006	23230	315936	26304	3970638	-14.5
Total All Exports	11832242	4839634	882597	417086	793818	380008	10860821	-9.3
Wood Pulp,Total	3805549	1652099	346815	154948	274506	124136	3715441	-4.3
Cotton Pulp and Other Pulp.	148485	92607	9356	6677	12271	7956	133147	-15.7
Waste and Old Paper	2664272	322195	166178	21504	177157	22041	2270768	-16.8
Paper, Paperbd&Products, Total	5213935	2772733	360248	233958	329884	225875	4741464	-9.4
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	4581878	2052406	316143	168287	283047	157135	4128487	-10.2
Paper, Total	907447	737363	86484	70190	71216	63791	1015258	13.6
Newsprint	174869	86403	29804	15032	19346	10321	261280	49.7
Printing & Writing	340859	306098	27276	27014	31280	28812	394777	19.6
Uncoated Groundwood	100951	71716	8680	7004	12014	8321	124352	27.7
Clay Coated Paper	92351	75160	6596	5735	7180	6255	89608	-1.8
Uncoated Free Sheet	88313	94826	8436	9489	8223	9597	120499	48.3
Other Printing & Writing	59244	64396	3565	4786	3843	4640	60318	0.4
Total Pkg. & Other Paper	330780	291341	25616	25307	18356	22372	302997	-8.0
Unbleached Kraft	142825	61346	7292	3461	6480	2898	109528	-23.1
Other Pkg. & Indust. Paper	187955	229995	18324	21846	11876	19474	193470	3.5
Tissue	60939	53521	3788	2837	2255	2286	56205	-6.6
Paperboard, Total	3608752	1283130	223806	95120	206717	90582	3030536	-16.7
Solid Wood Pulp	3359998	1182718	213101	89095	196840	85335	2850407	-16.3
Total Linerboard	2527245	790070	153137	52422	126646	44128	2046038	-21.0
Bleached Kraft Linerboard	233924	75960	6867	2944	3572	1726	156149	-27.6
Unbleached Kraft Linerbd	2293322	714110	146270	49479	123074	42402	1889890	-20.4
Other Unbleached Kraft	163825	60633	7836	3922	11470	5006	150672	-14.4
Other Bleached Kraft	606044	314751	48168	31513	52826	34525	589902	-1.4
Semi-Chemical Corrugating	62884	17264	3860	1238	5898	1676	63796	51.1
Recycled Paperboard	248754	100412	10705	6025	9877	5247	180129	-22.3
Wet Machine Board	8017	5258	927	614	949	597	10913	43.5
Construction Paper & Bd. *	57662	26655	4926	2364	4165	2165	71781	29.5
Building Paper	31436	13299	1831	949	1610	787	22087	-25.3
Insulating Board E	26226	13356	3094	1415	2555	1378	49693	92.3
Convtd Paper&Paperbd Products	632058	720328	44105	65671	46836	88741	612977	-3.8
Paper Products, Total	378581	523511	28378	49407	28977	50567	360521	-5.8
Paperboard Products, Total	253477	196817	15727	16264	17859	18174	252456	-0.7
Notes								
Other: No Weight Avail. ($000)		10300		753		575	10227	0.0
Total Exports Incl. Other($000)		4849934		417838		380583	4990553	2.6
* Hard Pressed Board (not in total)								
Imports of Hard Pressed Board	172023	32469	18930	4418	18198	3924	183070	10.6
Exports of Hard Pressed Board	28900	10706	4321	1470	7211	2134	62551	127.5

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PAPER AND PAPERBOARD PRODUCTION

CENSUS DATA

(Thousands of Tons)

	YEAR 1979	1980	JUNE 1981	JULY 1981	AUG. 1981	SEPT 1981	Annual Rate Y-T-D 1981	% Change From Same Period Last Year
					R	P		
PAPER								
Newsprint	3778	4680	447	460	456	439	5255	12.4
Uncoated Groundwood Papers	1800	1538	129	111	127	118	1475	-4.9
Coated Papers	4580	4751	422	397	415	425	4981	6.7
Uncoated Free Sheet (1)	7655	8008	664	813	648	650	7904	-1.3
Cotton Fiber Paper (1)	130	131	10	8	9	10	118	-8.2
Thin Papers	371	333	31	25	28	27	341	1.7
Bleached Bristols	857	941	85	69	88	82	982	2.0
Tissue Paper	4601	4474	375	361	385	365	4525	1.7
Unbleached Kraft Packaging & Industrial Conv. Papers(1)	3911	3718	307	277	303	302	3708	-1.8
Other Paper (1)	1797	1609	148	130	143	134	1621	1.2
TOTAL PAPER GRADES	29580	30164	2622	2451	2603	2557	30817	2.7
PAPERBOARD								
Solid Wood Pulp Furnish	23585	23902	2091	1988	2072	2044	24793	3.2
Unbleached Kraft Linerboard	13857	14249	1255	1171	1280	1246	14883	3.4
Other Unbl. Kraft Paperboard	1046	1038	103	100	80	82	1084	3.5
Bleached Kraft Paperboard	4065	4034	351	334	341	341	4136	1.9
Semi-Chemical Paperboard	4617	4583	383	383	370	375	4710	3.7
Recycled Paperboard	7583	7242	643	555	633	627	7534	5.3
TOTAL PAPERBOARD GRADES	31168	31143	2734	2543	2705	2671	32328	3.7
WET MACHINE BOARD	144	138	11	12	14	13	158	17.7
CONSTR. PAPER & INSUL. BOARD	3131	2420	185	173	160	141	2119	-13.2
TOTAL ALL GRADES [Excl. H.P.B.]*	64023	63865	5552	5179	5488	5382	65522	2.6

PRODUCER PRICE INDEXES

1967 = 100

	1979	1980	AUG.	SEPT	OCT.	NOV.		
Pulp, Paper and Products	219.0	249.2	275.7	276.9	279.1	280.2	272.8	9.8
Pulp, Paper & Products, except Waste Paper #	219.2	249.9	277.3	278.5	281.0	282.5	274.4	10.1
Total Wood Pulp	314.3	380.3	396.6	396.6	404.7	417.0	396.6	4.5
Total Paper	229.6	256.0	283.8	287.1	288.6	287.1	279.5	9.3
Total Paper, exc. Newsprint	222.8	249.3	273.6	277.1	279.1	279.4	270.5	8.9
Newsprint	249.9	279.7	314.8	320.0	320.0	314.4	307.5	10.6
Total Paperboard	202.1	234.6	261.2	262.5	262.6	261.6	258.2	10.2
Total Paper and Paperboard #	220.9	249.9	276.7	279.4	280.4	279.1	272.9	9.6
Converted Products	209.9	238.5	262.5	263.0	263.9	263.9	258.6	8.7
Waste Paper	206.6	208.7	182.1	178.5	165.1	144.5	178.6	-15.1
All Commodities	235.5	268.8	296.2	295.5	296.2	295.5	293.1	9.5
Industrial Commodities	236.4	274.8	307.0	307.2	308.8	309.1	303.5	10.9

(1) - Grade definitions revised by Census as of January 1979. New grades now consistent with API definitions. 1977 and 1978 Census data adjusted by API for comparability with 1979.

* See page 3 for Hard Pressed Board data. # Computed by API P-Preliminary R-Revised

SOURCES: Production - Bureau of Census, U.S. Department of Commerce
Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor

Continued from Page 2

Capital Expenditures

The Department of Commerce has recently released new data on capital expenditures by U.S. non-farm business. The Department reported that total non-farm business is spending $323 billion in 1981 on new plant and equipment, 9% above the 1980 total and 19% above the total spent in 1980. It also reported that these expenditures will rise to an average annual rate of about $350 billion in the first half of 1982. Even after adjustment for price increases, this trend indicates that plant and equipment expenditures are expected to exert a positive measure on total economic activity. Gains were stronger in manufacturing than non-manufacturing sectors. Within the manufacturing sector, expenditures by non-durable goods producers (including petroleum producers) were stronger than those by durable goods producers. Non-durable goods companies are spending about $65 billion in 1981, 15% above the 1980 level and 37% above 1979

Capital expenditures by paper companies in 1981 were estimated at $6.72 billion, about 1% below the record high $6.80 billion spent in 1980 and 21% above the previous high of $5.55 billion spent in 1979. According to the Department of Commerce, capital expenditures by paper companies are expected to ease to $6.5 billion per year in the first half of 1982, still a high level by historic standards. This projected dip is consistent with the data reported on starts and carryover of plant and equipment projects. Paper companies started projects worth about $6.7 billion in 1979 and $7.7 billion in 1980. However, the average rate for the first three quarters of 1981 was down to $5.7 billion per year, with the third quarter rate of starts at a $6.7 billion per year rate. The carryover of expenditures yet to be incurred on plant and equipment projects under way dropped from a peak of $6.4 billion at the end of the fourth quarter of 1980 to $5.6 billion at the end of the third quarter of 1981.

Data on capital appropriations recently published by the Conference Board confirm that capital expenditures by paper companies included in the 1,000 largest U.S. corporations will hold up fairly well during the next two or three quarters. The Converence Board reported a revised figure on capital appropriations in the second quarter of 1981 of $2 billion, which is far and away the highest quarterly current dollar figure reported for this series. In 1979, a record year for appropriations, paper companies appropriated a total of $4 billion, while in 1980 the total was $3.6 billion. The Conference Board reported that capital appropriations in the third quarter of 1981 amounted to $982 million, also a fairly high level.

Capital expenditures by these companies are running at about $4 billion a year. The closing backlog of unspent appropriations as of the end of the third quarter of 1981 was $4.3 billion, representing about a little more than a year's expenditures at current rates.

Continued from Page 11

Capacity Survey

The American Paper Institute has just released its 1981 Survey of Paper, Paperboard and Wood Pulp Capacity. This survey shows paper and paperboard capacity rising by 2.5% per year from 1979 through 1982, with relatively small year-to-year deviations from this average. The 1981 capacity level was reported at 72,148,000 tons, 2.0% above the 1980 level. Capacity is expected to rise 3.3% in 1982 to 74,558,000 tons and to rise further to 77,162,000 tons in 1984.

The 1982-1984 increase amounts to 5 million tons, for an average growth rate of 2.3% per year. This compares to the 2.4% per year increase in the preceeding 15 years.

The major gains in the 1982-1984 period are projected in newsprint, 3.7% per year; printing and writing papers, 3.5% per year; unbleached kraft paperboard, 2.1% per year; and semichemical paperboard, 4.0% per year.

Wood pulp capacity is expected to show a somewhat smaller increase, rising 3.3 million tons in the 1982-1984 period for an annual rate of 1.9%, from the 1981 level of 57,010,000 tons. This compares to the 2.5% per year average growth in the preceeding 15 years. However, one capacity announcement made subsequent to the publication of this report would bring the growth rate in the 1982-1984 period to 2.0% per year. In addition, several other projects are under consideration which, if brought in earlier, could increase the growth in wood pulp capacity.

In addition to the usual data on wood pulp, paper and paperboard capacity and fibrous raw materials consumption, the report presents an analysis of paper machines in operation by grade and by size of machine.

For information on how to obtain copies of this report, please write to the Capacity Department, American Paper Institute, 260 Madison Avenue, New York, New York 10016. Copies are available to members at no additional charge; copies to non-members are $100.

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INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

DECEMBER 28, 1981

	PRODUCTION (000 TONS)					
	Nov. 1981	Oct. 1981	Nov. 1980	Jan – Nov. 1981	1980	% Change 81/80
PAPER GRADES	P	R				
Newsprint	438	463	395	4827	4299	12.3
Uncoated Groundwood (s)	118	133	120	1330	1374	-3.2
Coated Paper (s)	399	439	397	4561	4270	6.8
Uncoated Free Sheet Paper (s)	628	687	635	7309	7343	-0.5
Thin Paper (c)	24	28	25	308	313	-1.6
Cotton Fiber Paper (s)	9	11	11	110	116	-5.2
Bleached Bristols (s)	96	94	82	1009	903	11.8
Tissue Paper	370	389	368	4129	4028	2.5
Unbleached Kraft Packaging & Indl. Converting (s)	319	307	313	3591	3626	-1.0
Other Paper (c)	130	140	131	1486	1479	0.5
TOTAL PAPER	2531	2691	2477	28659	27751	3.3
PAPERBOARD GRADES						
Kraft Linerboard, Unbleached	1175	1217	1195	13651	13200	3.4
Other Kraft Paperboard	77	94	82	1005	992	1.3
Semichemical Paperboard	370	396	404	4391	4364	0.6
Bleached Paperboard	316	319	319	3658	3566	2.6
Recycled Paperboard	551	601	603	6606	6517	1.4
TOTAL PAPERBOARD	2491	2628	2603	29311	28639	2.3
CONSTRUCTION & WET MACH GRADES(c)	152	164	201	2023	2367	-14.5
TOTAL PAPER AND PAPERBOARD	5173	5482	5281	59994	58758	2.1
HARD PRESSED BD.[not in total](c)	150	170	181	1837	1798	2.2

WOOD PULP (ALL GRADES)	Oct. 1981	Sept 1981	Oct. 1980	Jan – Oct. 1981	1980	% Change 81/80
Dissolving & Special Alpha	113	102	124	1152	1259	-8.5
Bleached Sulphite	119	112	131	1191	1211	-1.6
Unbleached Sulphite	35	33	33	334	322	3.9
Bleached & Semi-Bl. Sulph.	1812	1627	1621	16970	15935	6.5
Unbleached Sulphate	1635	1682	1671	16706	16548	1.0
Semichemical	326	322	344	3361	3390	-0.9
Groundwood and Thermo-Mechanical	423	427	395	4195	3820	9.8
TOTAL PULP DIVISION DATA	4463	4305	4319	43909	42484	3.4
Defib. Exploded & Scrngs E	210	189	241	2185	2049	6.6
TOTAL WOOD PULP PRODUCTION	4673	4494	4560	46095	44534	3.5

Note: Paperboard cumulative totals include revisions not available monthly.

(s) - Shipments R - Revised E - Estimate
P - Preliminary (c) - Census Data - Production, last 2 months estimated.

December 29, 1981

	Full Year		INDUSTRY DATA 1981			Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1979	1980	September	October	November		
Total Production (API).......| |...	64594	63701	5340	5482	5173	65448	2.1
Total Seasonally Adjusted....| excluding |...			5570	5262	5228	64958	2.4
Imports (including Products).|hard pressed|..E	9123	8778	618	784	N.A.	8363	-5.1
Exports (including Products).| board |..E	3672	5214	360	330	N.A.	4670	-10.5
Apparent Consumption.........| |...	70045 a	67265 b	5828	5716	5600	68651c	2.4
Paper Production % Tonnage Capacity...........	95.9 g	92.4Rs	90.3	90.5	38.2	91.5gh	-
Paperboard Production % Tonnage Capacity......	94.0 g	91.8Rs	89.3	87.5	85.7	92.6g	-
			August	September	October		
MARKET WOOD PULP PRODUCTION - Tons (000)........	5678	6488	581	478	559	6275	-4.1
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)....	49367	50580	4514	4305	4463	52691	3.4
WOOD PULP IMPORTS - TONS (000)..................	4318	4051	323	279	406	4188	2.8
WOOD PULP EXPORTS - TONS (000)..................	2935	3806	300	347	275	3715	-4.3
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS			August	September	October		
Wood Pulp..(K)................................	49804	49426	4358	4244	4352	51667	3.7
Waste Paper....(d)............................	15361	14520	1249	1209	1261	14812	4.4
Other (Census)...............................E	702	607	45	45	45	594	-1.2
Total................	65867	64553	5651	5498	5668	67072	3.8
. WOOD PULP - NON PAPER.........................E	913	825	62	67	70	802	-3.3
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	79566	80522	6796	6645	7058	80984	-0.1
EMPLOYMENT (000)			September	October	November		
Paper and Allied Products....... ..Total......	706.8	694.0	702.0	692.8	391.5	390.8	-0.1
Pulp, Paper and Board Mills........Total.....E	271.4	269.0	271.7	267.0	266.2	269.1	0.1
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products....................	7.13	7.84	8.95	8.81	8.91	8.5[illegible]	9.8
Pulp, Paper Mills...........................E	8.26	9.15	10.83	10.38	10.60	10.03	10.1
Paperboard Mills............................E	8.38	9.28	10.74	10.50	10.70	10.22	10.9
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1981 Q2	1981 Q3	1981 Q4		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	5.55	6.80	5.42	7.01	6.58	6.72	-1.2
INDEX OF OUTPUT PER MAN-HOUR (1977=100)..........			September	October	November		
|IN PULP, PAPER |...Production Worke...........	106.0	107.8	105.4	108.7	107.0	108.2	0.6
|AND BOARD MILLS|...All Employees..............	105.3	106.3	105.7	107.2	106.0	107.1	1.1
PAPER AND ALLIED PRODUCTS (Million $)			August	September	October		
Industry Shipments (Dept. of Commerce)*.......	66074	71736	6446	6537	6475	77621	9.3
Pulp, Paper and Paperboard*.................	28771	31952	2820	3042	2843	34171	8.0
Inventories (End of Period) - Total Industry*.	7079	7798	8445	8588	8681	8681	11.7
Pulp, Paper and Paperboard*.................	2435	2794	3122	3123	3216	3216	11.2
			1981 Q1	1981 Q2	1981 Q3		
Sales (Corporations Only, FTC)................	55359	54737	14402	15249	15271	59896	10.7
Earnings (Corporations Only, FTC).............	3724	2781	758	853	625	2981	6.9
Depreciation (Corporations Only, FTC).........	1896	1990	534	550	565	2199	12.0
Net Worth (Corporations Only, FTC)............	23206	23873	24340	25000	25238	25238	7.3
PRICE INDEXES (Bureau of Labor Stats)1967=100			September	October	November		
Total Pulp, Paper and Allied Products.........	219.0	249.2	276.9	279.1	280.2	272.8	9.8
Wood Pulp.....................................	314.3	380.3	396.6	404.7	417.0	396.6	4.5
Waste Paper...................................	206.6	208.7	178.5	165.1	144.5	178.6	-15.1
Paper...	229.6	256.8	287.1	288.6	287.1	279.5	9.3
Paperboard....................................	202.1	234.6	262.5	262.6	261.6	258.2	10.2
PAPER DEMAND (INDEXED: 1967=100)			September	October	November		
Total Paper Production *......................	142.9	143.9	154.6	148.5	146.6	148.7	3.6
Paper New Supply *..........................	138.2	136.1	139.2	142.2	134.8	137.7	1.4
Total End - Use Index *.....................	145.0	146.3	151.8	151.6	151.6	150.6	3.1
Production of Nondurable Goods *...(19%)..	164.1	161.2	166.2	164.0	161.5	165.6	2.9
Disposable Income (Constant $) *...(23%)..	150.0	151.0	154.8	155.5	155.8	154.2	2.2
Total Printing and Publishing *...(58%)..	136.8	139.5	145.9	146.0	146.7	144.2	3.6
Trend Factor	--------------	--------------	----------	--Not Available--	----------	--------------	------
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *.................	137.9	135.4	142.8	132.2	132.2	138.6	2.6
Production for Domestic Use	135.5	128.3	141.1	129.8	128.6	134.9	5.8
Total End - Use Index *.....................	152.0	146.1	149.9	148.3	145.2	150.1	2.9
Production of Consumer Goods *...(60.49%)	150.6	145.4	148.2	147.5	144.7	148.5	2.3
Production of Equipment *...(6.62%)	142.2	145.2	153.1	152.3	150.8	151.7	4.7
Production of Materials *...(32.89%)	156.4	147.6	152.4	148.9	144.9	152.7	3.7
Trend Factor	--------------	--------------	----------	--Not Available--	----------	--------------	------
NEWSPRINT MARKETS			August	September	October		
Consumption by Publishers - Tons (000)........	11240	11121	913	926	1020	11065	0.8
Newspaper Pub. and Printing Empl. Total(000)..	420.1	422.8	434.0	433.4	436.7	430.5	2.0
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)..........	114956	117592	7585	11353	12067	116909	1.9
WHOLESALERS SALES AND INVENTORIES (Million $)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	19271	21643	2081	2198	2270	24874	15.9
Inventories (End of Period)	1871	1849	2052	2072	2108	2108	18.9
Paper Only.............................Sales	14510	15879	1505	1603	1638	18030	14.2
Inventories (End of Period)	1124	1248	1366	1371	1386	1386	15.3
RETAIL TRADE (Million $)			September	October	November		
Total Retail Sales *..........................	892496	953984	88699	86803	87465	1044577	10.0
Nondurable Goods Stores Sales *...............	588697	656231	60319	60482	30770	715293	9.5
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	152.5	147.0	151.7	149.8	146.5	151.6	3.4
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	235.5	268.8	295.5	296.2	295.5	293.1	9.5
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	217.4	246.8	279.3	279.9	280.7	271.5	10.5
			August	September	October		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	312.0	313.4	324.7	328.3	328.8	328.8	7.0
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$).			1981 Q1	1981 Q2	1981 Q3		
G.N.P. or Expenditure - Current $.............	2413.9	2626.1	2853.0	2885.8	2965.0	2901.3	12.0
G.N.P. OR Expenditure - 1972 $................	1483.0	1480.7	1516.4	1510.4	1515.8	1514.2	2.4

lb/capita Popul.(mil)
.a - 622 225.1
.b - 591 227.7
.c - 598 229.5
.d - 1979 - 12915; 1980 - 12705
. Jan-Sep.'81 ARY-T-D - 13980
. (000 tons) as pub. by Census
.E - Last month estimated by API

F - Wood Pulp Production excludes estimates for def. expl. & scrngs. Prod. was: 1979 - 3,274; 1980 - 2451; 1981 Jan-Oct ARY-T-D 2622 (000 tns)
g - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
k - Excludes consumption of defib. & expl. pulp for hard p. bd.: '79 - 1,507; '80 - 1,124 (000 tons) 1981 ARY-T-D - 1258

N.A. - Not Available
P - Preliminary
q - Quarter
R - Revised
RS - Revised Series
y - Full year estimated by U.S. Dept. of Commerce
* - Seasonally adjusted

/

A 2500-2

2/26/82

Paper
Paperboard
& Wood Pulp

MONTHLY STATISTICAL SUMMARY · Vol. 60 · No. 1 JANUARY 1982

Production moves downward in December but 1981 total at near-record high

In the closing weeks of 1981 production of paper, paperboard and wood pulp turned sharply downward. Mills extended their normal vacation shutdown; several mills shut down completely. On a seasonally adjusted basis, total paper and paperboard production in December was about 5.5% below its November level. Yet even with this year-end weakness, total paper and paperboard production amounted to 64.5 million tons, nearly matching the 1979 high of 64.6 million tons and 1.2% above the 1980 total. Preliminary data indicate that total wood pulp production did reach a new high of about 54 million tons, 2% above the 1980 level, while market pulp production remained above the 6 million ton level, second only to the 1980 record high.

Preliminary data for the early weeks of 1982 show that paper production moved back to the levels held before the year-end shutdowns; paperboard data were not available.

Production of paper and paperboard in 1981, excluding construction and wet machine board, did establish a new high. The 1981 total, based on the preliminary data shown on page 3, reached 62.3 million tons, 1.6% above the 1979 high of 61.3 million tons and 1.9% above the 1980 total.

The trend of total paper and paperboard demand in 1981 (defined as production plus imports less exports) was consistent with that of the total economy. The U.S. economy was basically in a downtrend during 1981; the upward blip in the real gross national product (real GNP) in the summer months was largely the result of inventory accumulation; the trend of final sales moved generally downward after the first quarter. The industry's production was also affected by a decline in exports, estimated at 12% for the year. Imports fell about 5%, so that the total new supply of all grades including construction and wet machine board was 68.2 million tons, 1.5% above the 1980 level but 2.6% below the record high reached in 1979. The new supply of grades excluding the construction and

Continued on Page 2

Continued from Page 1

wet machines board grades was somewhat stronger, at an estimated 65.8 million tons, new supply was 2.3% above the comparable 1980 total and 1.0% below the 1979 high.

The new supply totals include production diverted to inventory and there was some inventory building of paper and paperboard, largely at the end-user level. For example, inventories of containerboard at mills and box plants rose 698,000 tons during 1981, compared with a 6,000 ton gain in 1980 and 18,000 tons in 1979. The January 1, 1982 inventory figures reported by the Fibre Box Association amounted to 9 weeks of supply, but this high level also reflected the low consumption figure used in computing the weeks of supply.

The annual trends in new supply are summarized in the two tables shown below. The first shows production, imports, exports and new supply total of all grades of paper and paperboard in 1979, 1980 and 1981, together with the real GNP and the ratio of new supply to real GNP. This table shows that the total new supply moved in line with real GNP in 1980-1981, but at a level below that of 1979. The 1979 ratio was, itself, on the 1976-1978 trend.

The second table shows these same measures excluding the construction and wet machine board grades. On this table the 1981 production total is at a record high, while the new supply/GNP ratio for 1981 is slightly above that of 1980 and still below the level in 1979.

PAPER, PAPERBOARD, CONSTRUCTION AND WET MACHINE BOARD

	1979	1980	1981
Total Paper and Board (Including Construction and Wet Board Grades)			
Production (000 Tons)	64,594	63,701	64,463
Imports (000 Tons)	9,123	8,778	8,380E
Exports (000 Tons)	3,672	5,214	4,600E
New Supply (000 Tons)	70,045	67,265	68,243
Real GNP (Bill 1982 $)	1,483.0	1,480.7	1,509.6
New Supply/Real GNP	47.23	45.43	45.20

Continued on Page 11

PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS

(Thousands of Tons)

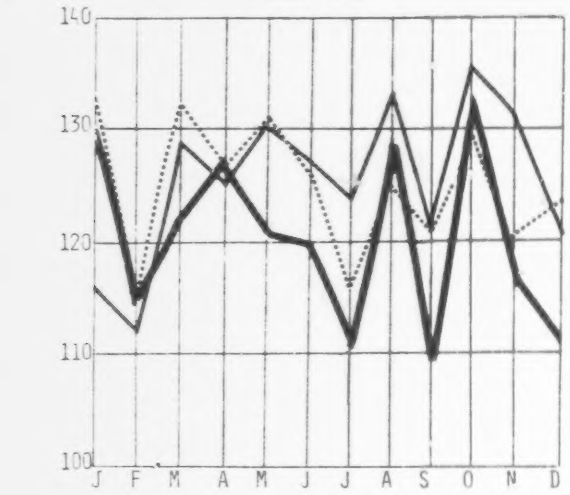
	YEAR 1979	 1980	SEPT 1981	OCT. 1981	NOV. 1981	DEC. 1981	Annual Rate Y-T-D 1981	% Change From same Period Last Year
PAPER					R	P		
Newsprint - Production	4062	4872	441	483	454	385	5238	12.1
- Shipments	4086	4667	452	460	449	404	5220	11.8
Printing & Writing	15413	15605	1334	1381	1269	1147	15767	1.0
Groundwood Paper - Shipments	1508	1498	110	133	117	111	1440	-3.9
- New Orders	1519	1475	118	117	85	118	1423	-3.5
- Unfilled Orders	149	110	134	117	90	88	88	-9.7
Coated Paper - Shipments	4527	4673	434	439	389	383	4925	5.4
- New Orders	4547	4753	408	448	396	337	4840	1.8
- Unfilled Orders	385	391	317	324	319	296	298	-24.4
Unctd Free Sheet - Shipments	7823	7983	861	684	630	553	7861	-1.5
- New Orders	7836	7694	627	677	570	571	7685	-0.1
- Unfilled Orders	781	546	446	442	367	391	391	-28.4
Thin Paper - Production	372	343	27	29	28	25	336	-1.9
Cotton Fiber Paper - Shipments	125	126	10	11	10	9	119	-5.4
Bleached Bristols - Production	1056	982	92	94	88	85	1087	10.7
Tissue Paper - Production	4520	4375	372	390	375	350	4485	2.5
Total Packaging & Other Paper	5895	5539	452	451	456	384	5491	-0.9
Unbl. Kraft Paper - Shipments	4098	3930	318	311	326	269	3881	-1.0
Other Paper - Production * #	1797	1609	133	140	130	115	1600	-0.5
TOTAL PAPER-Production-UnadJ.	29890	30191	2599	2684	2555	2276	30982	2.6
-Production-S.A.			2701	2595	2583	2426	31013	2.9
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	23838	23881	1997	2027	1939	1563	24[illegible]68	1.6
Unbl. Kraft Linerboard (1)	13951	14232	1215	1217	1175	808	14558	2.3
Production for Export	1645	2380	128	130	152	115	1824	-23.4
Other Unbl. Kraft Paperboard	1200	1083	72	94	72	67	1067	0.3
Semichemical Paperboard	4689	4723	390	396	376	320	4717	-0.1
Production for Export	98	322	10	9	9	8	140	-56.4
Solid Bleached Paperboard	3988	3862	319	318	315	269	3926	1.6
Production for Export	491	545	45	45	45	45	554	1.7
Recycled Paperboard	7591	7071	593	601	543	472	7070	-0.0
Production for Export	22	83	1	1	1	2	21	-74.4
TOTAL PAPERBOARD-Prod.-UnadJ.	31429	30852	2590	2528	2482	2035	31338	1.2
- Containerboard Prod.(Dom. Use)	18825	18070	1620	1634	1541	1227	19138	5.9
- Boxboard Prod.(Dom. Use) (2)	5776	5477	454	469	431	363	5560	1.5
- All Other P'bd Prod.(D.U.) (2)	4571	4075	332	339	303	276	4098	0.6
- Total Paperbd Prod. for Export	2257	3329	184	185	207	170	2540	-23.7
TOTAL PAPERBOARD PROD. - S.A.			2715	2515	2504	2372	31358	1.3
WET MACHINE BOARD *	144	138	14	14	12	12	157	14.0
BUILDING PAPERS *	1868	1369	82	82	75	70	1149	-16.1
INSULATING BOARD *	1263	1051	59	56	60	55	836	-20.3
TOTAL ALL GRADES - UnadJusted	64594	63701	5343	5473	5[illegible]83	4448	64463	1.2
- Production - S.A.			5573	5253	5237	4952	64518	1.3
HARD PRESSED BD. [not in total]*	2306	1970	149	136	120	105	1878	-4.6

* Census Data - Production. Last two months estimated.
# 1981 data estim. by API to conform to revised data for prior years.
(1)Includes all exports of Kraft paperboard.
(2)Data for unbl. Kraft folding boxboard incl. in aAll Other P'bd.

S.A. Seasonally Adjusted
P Preliminary
R Revised

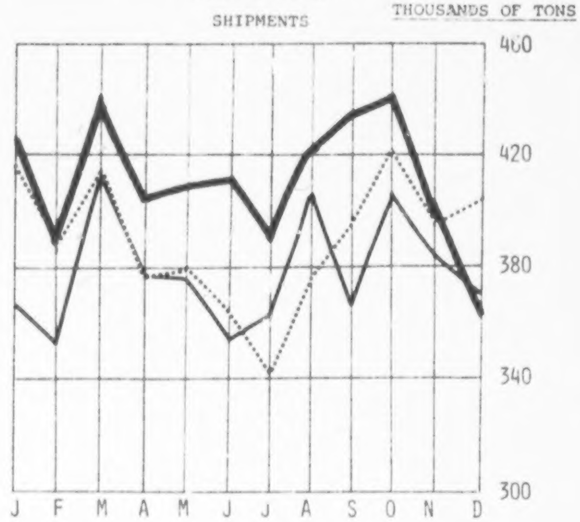
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



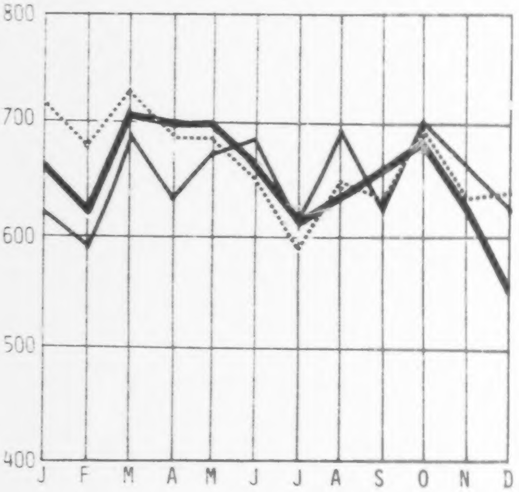
COATED PAPER

SHIPMENTS



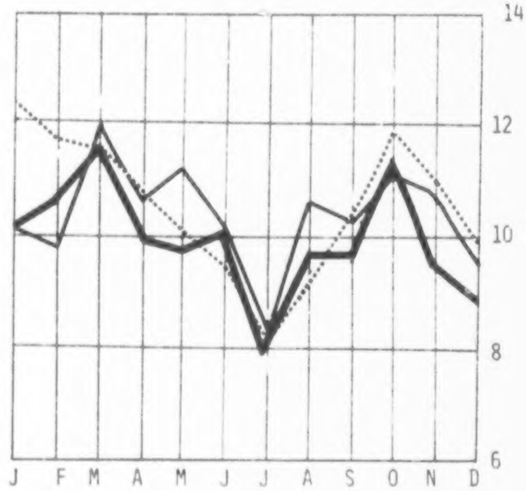
UNCOATED FREE SHEET PAPERS

SHIPMENTS



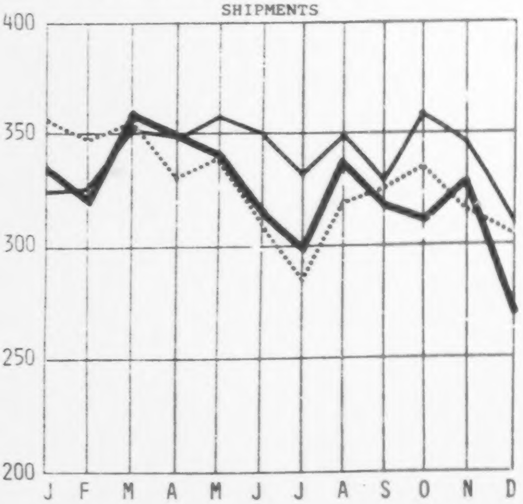
COTTON FIBER PAPER

SHIPMENTS



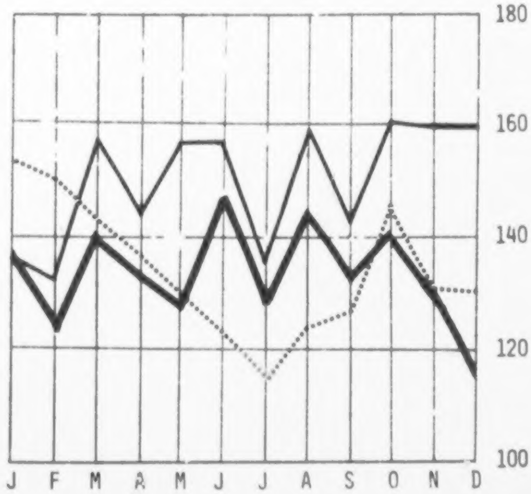
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1979 —— 1980 ········ 1981 ▬▬

WOOD PULP STATISTICS
(Thousands of Tons)

	YEAR		AUG. 1981	SEPT 1981	OCT. 1981	NOV. 1981	Annual Rate Y-T-D 1981	% Change from same Period Last Year
	1979	1980						
TOTAL WOOD PULP (1)					R	P		
Total Wood Pulp - Production	48387	50560	4514	4305	4459	4251	52534	3.1
- Imports	4318	4051	323	279	408	318	4154	2.4
- Exports	2935	3806	300	347	275	267	3669	-3.5
- New Supply	50750	50805	4537	4237	4591	4302	53020	3.5
Dissolving Pulp - Production	1497	1508	140	102	113	129	1397	-7.4
- Imports	193	283	14	28	32	13	244	-10.0
- Exports	764	789	65	63	62	53	762	-2.6
- New Supply	926	1002	89	67	83	89	879	-11.8
Paper Grades Chemical Pulp - Production	38418	40430	3800	3453	3597	3414	42121	3.2
- Imports	3823	3615	290	246	349	288	3715	2.5
- Exports	2100	2956	234	283	211	213	2885	-1.7
- New Supply	41239	41089	3856	3416	3735	3488	42852	3.5
Groundwood and Thermo-Mech. - Production	4394	4579	444	427	423	407	5021	9.8
- Imports	201	173	20	5	25	18	195	13.0
- Exports	70	81	2	1	2	0	22	-73.6
- New Supply	4525	4672	462	432	446	425	5194	11.5
Semi-Chemical - Production	4060	4043	330	322	326	301	3895	-1.9
- Imports	0	0						
- Exports	0	0	------ Included with Groundwood Pulp ------					
- New Supply	4060	4043	330	322	326	301	3895	-1.9
MARKET WOOD PULP								
Total Market Wood Pulp - Production	5678	6498	581	478	559	538	6291	-4.0
- Imports	3046	2547	237	244	263	214	2925	-0.7
- Exports	2795	3513	287	353	214	245	3290	-5.1
- New Supply	5929	5821	532	369	608	507	5926	-1.7
Dissolving Pulp - Production	1497	1508	139	102	112	128	1365	-9.4
- Imports	306	235	10	21	26	13	236	-1.9
- Exports	869	878	72	93	43	61	760	-12.7
- New Supply	934	865	78	30	95	81	841	-4.0
Paper Grades Chemical Pulp - Production	4118	4813	441	378	447	409	4925	-1.0
- Imports	2734	2687	225	219	234	198	2639	-1.6
- Exports	1880	2588	214	260	171	184	2519	-0.9
- New Supply	4972	5012	451	335	511	423	5044	-1.4
Groundwood Pulp and All Other - Production	83	69	1	0	0	0	1	N/A
- Imports	7	26	2	4	3	2	50	
- Exports	46	50	0	0	0	0	11	
- New Supply	24	44	3	3	2	2	40	

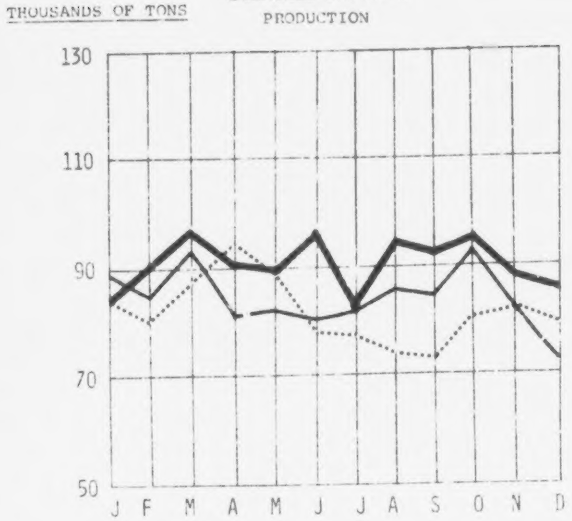
(1) Production excludes defibr., expl. and scr. (000)tons: 1979 - 3,080(R); 1980 - 2,622(R); 1981 AR YTD - 2,352(R)
SOURCES: Total Wood Pulp Imports & Exports - Department of Commerce. Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp & Raw Materials Group, API.

FIBROUS RAW MATERIALS
(Thousands of tons)

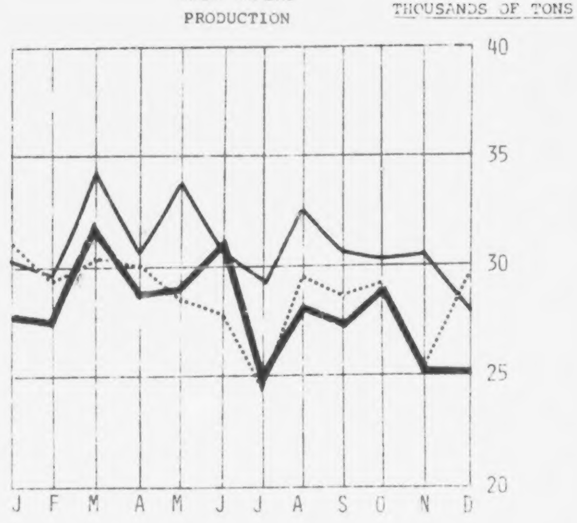
CONSUMPTION AT PAPER & BD. MILLS					R	P		
Total	65687	64955	5739	5578	5781	5372	67795	3.7
Total Wood Pulp (2) A	49804	49426	4358	4240	4389	4102	51471	3.4
Market Wood Pulp C, E	5031	4788	430	435	436	410	5188	8.1
Waste Paper (3) A	15381	14922	1332	1289	1345	1225	15694	4.5
Rags, Straw & Other C, E	702	607	49	48	47	45	631	4.3
INVENTORIES								
Wood Pulp at Pulp Mills A	107	117	203	181	195	214	214	48.0
Market Pulp at Pulp Mills A	132	239	373	296	407	463	463	56.2
Mkt Pulp at Ppr.& Bd. Mills CE	426	449	505	485	461	460	460	13.4
Waste Ppr.at Ppr.&Bd. Mills (4)	804	1110	1161	1208	1223	1265	1265	19.0
Rags, Straw and Other at Paper and Board Mills C, E	61	71	48	44	45	43	43	-36.8
Mkt Wood Pulp Days of Supply A	38	45	56	50	58	62	62	27.1
Wood Pulp Consumption at at Non-Paper Mills C, F	913	825	82	87	84	64	792	-3.8

A - Pulp & Raw Materials Group, API; C - Bureau of the Census; E - Most Recent Month Estimated by API
P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons
(2) Excl. cons. of defib. & expl. pulp for hard pressed bd.
(3) Census Waste Paper Consumption, (000 tons): 1979 - 13,012; 1980 - 12,583; Jan-Oct'81 ARY-T-D - 13,685
(4) Census data prior to 1979; more recent data are from the Paper Stock Conservation Committee, A.P.I.

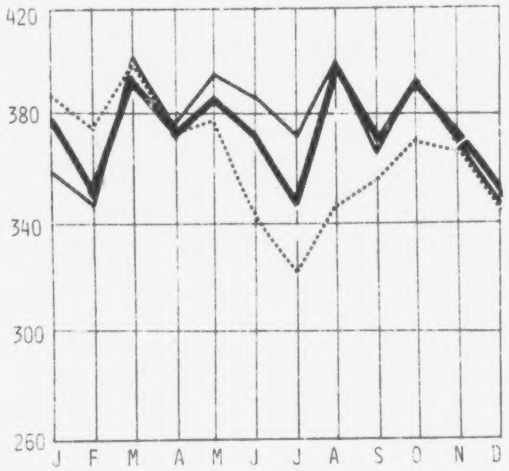
BLEACHED BRISTOLS
PRODUCTION



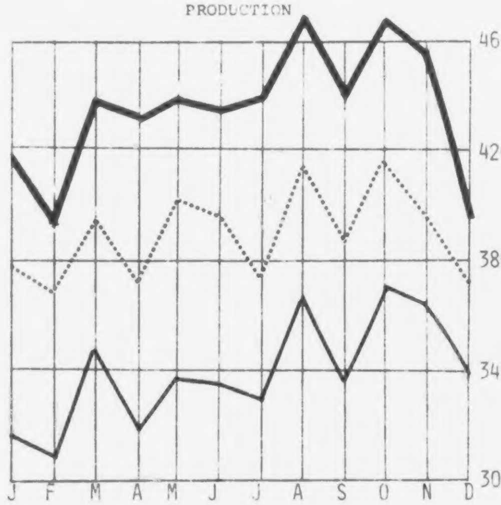
THIN PAPERS
PRODUCTION



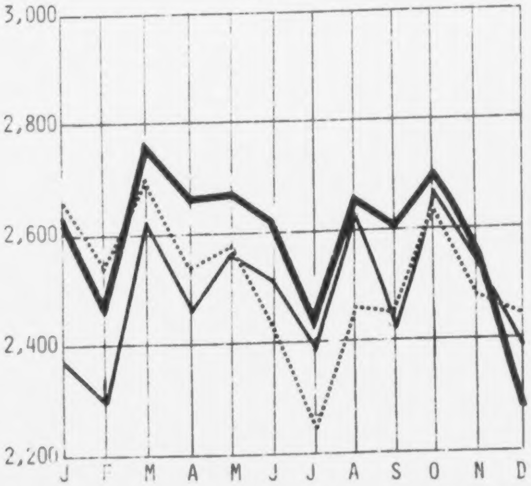
TISSUE PAPER
PRODUCTION



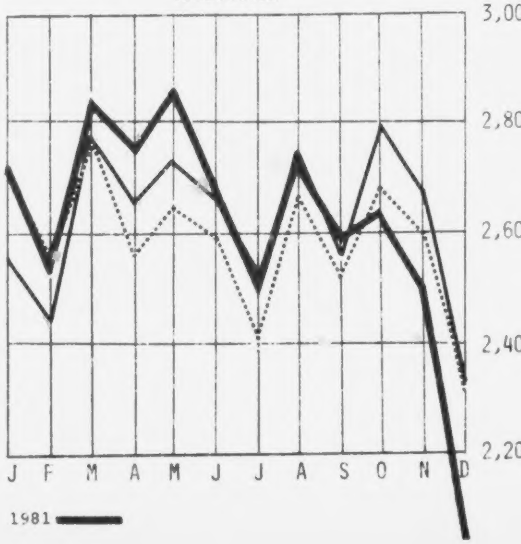
NEWSPRINT
PRODUCTION



TOTAL PAPER
PRODUCTION



TOTAL PAPERBOARD
PRODUCTION



1979 —— 1980 ········ 1981 ▬▬

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic foot) Cords)

		YEAR 1979	YEAR 1980	AUG. 1981	SEPT 1981	OCT. 1981	NOV. 1981	Annual Rate Y-T-D 1981	% Change From same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	78625	81805	6839	6774	7206	6258	80264	-2.3
	- Total Consumpt.	79566	80522	6796	6645	7058	6459	80668	-0.5
	- Residues *	30015	29402	2659	2517	2680	2316	30920	5.1
	- Inventories	5506	6285	5552	5693	5917	5600	5600	-7.2
So. Atlantic	- Total Receipts	26126	26742	2009	2117	2151	1964	24912	-7.3
	- Total Consumpt	26523	26691	2083	2062	2076	1970	25136	-6.7
	- Residues *	8858	8776	748	736	756	688	8863	0.6
	- Inventories	1052	1158	829	817	1000	962	962	-7.4
Northeast	- Total Receipts	7461	7710	677	663	767	595	7814	1.1
	- Total Consumpt	7584	7487	663	642	724	615	7801	3.8
	- Residues *	1670	1649	103	97	107	107	1376	-16.8
	- Inventories	674	724	552	671	704	555	555	-8.0
South Central	- Total Receipts	26654	27509	2345	2425	2553	2271	27971	2.1
	- Total Consumpt	26432	27074	2363	2402	2487	2276	28094	3.3
	- Residues *	8669	8001	739	722	791	641	9068	14.5
	- Inventories	1472	1830	1365	1412	1546	1581	1581	-1.6
North Central	- Total Receipts	5630	5514	487	446	485	445	5613	1.7
	- Total Consumpt	5535	5292	470	427	501	488	5741	8.0
	- Residues *	1501	1361	130	132	115	128	1445	5.7
	- Inventories	993	1210	1134	1124	1118	1058	1058	-11.5
West	- Total Receipts	12754	14330	1321	1123	1250	983	13954	-4.9
	- Total Consumpt	13492	13978	1217	1112	1270	1110	13896	-1.2
	- Residues *	9317	9615	939	830	911	752	10168	5.3
	- Inventories	1315	1363	1572	1568	1549	1444	1444	-9.2

* - Consumption of Residues in Cord Equivalents.
SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

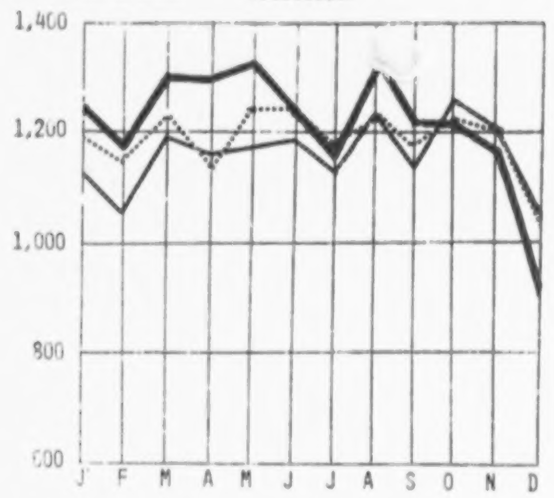
	YEAR 1980 Tons	YEAR 1980 $000	OCT. 1981 Tons	OCT. 1981 $000	NOV. 1981 Tons	NOV. 1981 $000	Annual Rate Y-T-D 1981	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	236831	10865	20801	1140	11820	598	173239	-14.6
Pulpwood Chips	1723579	45887	152139	4038	135784	4175	1703357	-0.5
Wood Pulp, Total	3853004	1607592	363859	159926	302565	136995	3891731	1.2
Waste Fibrous Materials, Total	118464	20761	10321	1802	9993	1829	112956	-5.4
Paper,Paperboard&Products,Total	8312713	3036632	747985	320959	706826	295778	8084689	-3.1
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd. *	8262720	2871455	743689	313808	703425	290002	8048649	-2.9
Paper, Total	7719672	2868402	699636	304044	673102	282976	7530241	-2.6
Newsprint	7126839	2578687	645008	273882	619568	252832	6959055	-2.4
Printing,Writing & Rel.Pap.	510412	239837	47397	24999	47621	25876	476640	-8.8
Pack. & Ind. Conv. Paper	77046	45466	6125	4203	5248	3770	85297	14.7
Special Industrial Paper	1418	2077	226	382	70	117	2343	72.0
Tissue Paper	3938	2336	880	578	595	381	6906	63.7
Paperboard, Total	96896	24667	11889	3107	7882	2084	134501	37.6
Wet Machine Board	1464	779	117	58	71	43	1077	-25.9
Construction Paper and Bd. *	444688	77608	32047	6602	22371	4899	382830	-16.8
Convtd Paper&Paperbd Products	49993	65176	4296	7152	3401	5776	36040	-31.4

EXPORTS TO CANADA

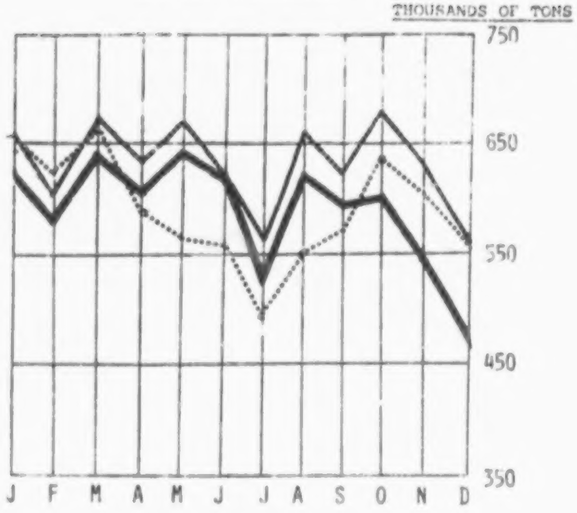
	YEAR 1980 Tons	YEAR 1980 $000	OCT. 1981 Tons	OCT. 1981 $000	NOV. 1981 Tons	NOV. 1981 $000	Annual Rate Y-T-D 1981	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	169622	8862	19992	1307	22797	1356	185940	12.8
Pulpwood Chips	23388	934	2585	120	3623	184	38559	58.6
Wood Pulp, Total	147359	51651	8538	4315	7300	4004	122981	-19.0
Cotton Pulp & Other Pulp	10363	5056	558	367	248	174	6247	-41.6
Waste Paper	450762	48737	28367	3397	26649	3167	368422	-19.4
Paper,Paperboard&Products,Total	565979	382416	47177	36521	50085	38472	711909	27.6
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board *	413325	264890	35403	25271	34340	26531	539583	33.7
Paper, Total	216661	180275	19046	17751	19148	18793	284937	35.7
Newsprint	3116	2651	555	400	471	355	8918	196.6
Printing,Writing & Rel.Pap.	117761	91293	11538	9833	11169	9181	169189	46.5
Pack. & Ind. Conv. Paper	16872	11354	1936	1189	2293	1499	25184	64.5
Special Industrial Paper	73079	70135	4565	6000	4863	7205	74362	5.9
Tissue	5834	4842	452	328	352	553	7284	22.1
Paperboard, Total	166459	70926	13973	6574	12255	6616	213510	30.4
Wet Machine Board	4105	2437	659	349	808	444	7293	94.3
Construction Pap. & Bd. E *	26101	11251	1724	598	2131	678	33843	29.2
Convtd Paper&Paperbd Products	152654	117527	11774	11250	15745	11941	172326	11.6
* - Hard Pressed Board (not in total)								
Imports of Hard Pressed Bd.	40723	8181	2036	496	218	454	24682	-38.3
Exports of Hard Pressed Bd.	19807	7314	3210	800	2056	654	37937	87.1

SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

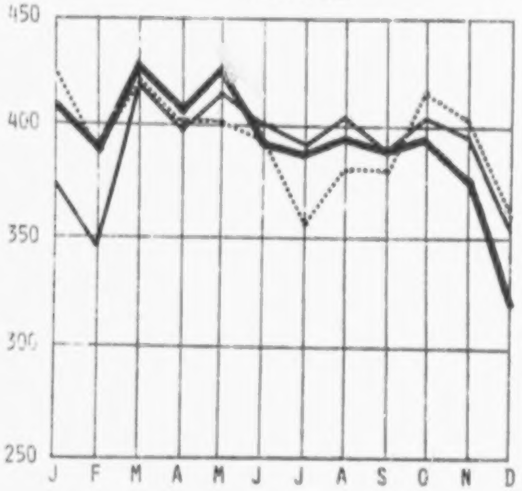
UNBLEACHED KRAFT LINERBOARD
PRODUCTION



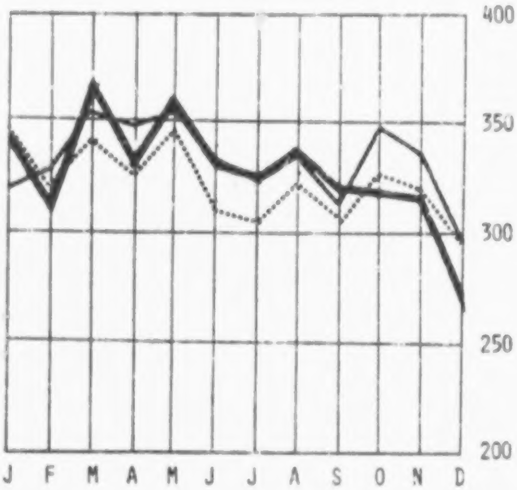
RECYCLED PAPERBOARD



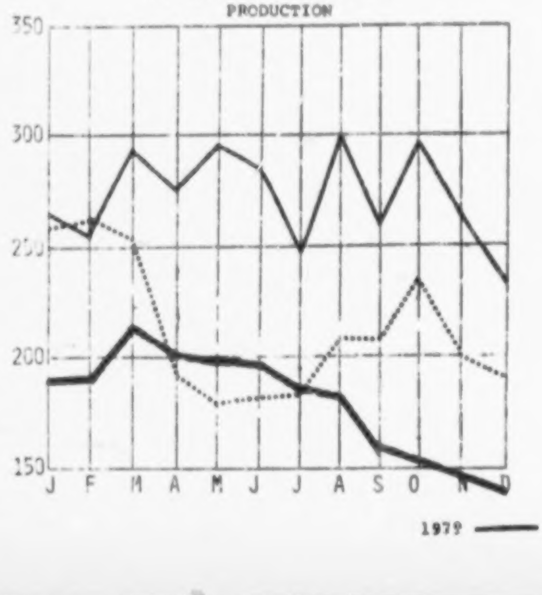
SEMI-CHEMICAL PAPERBOARD
PRODUCTION



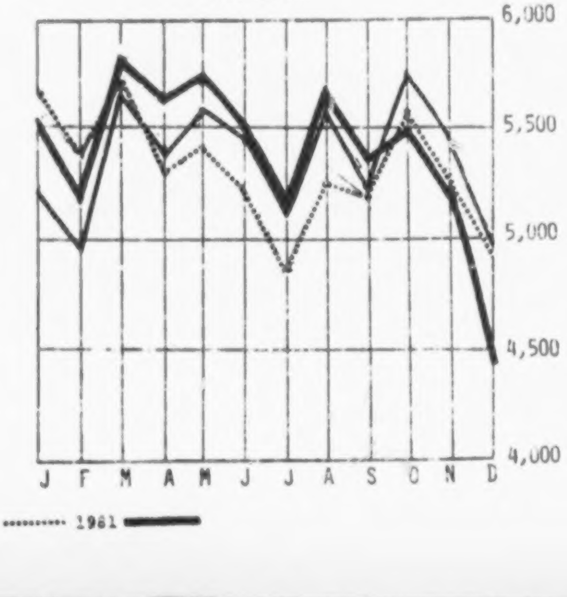
SOLID BLEACHED PAPERBOARD
PRODUCTION



WET MACHINE BOARD AND BUILDING PAPER AND BOARD
PRODUCTION



TOTAL PAPER AND BOARD
PRODUCTION



1979 ——— 1980 ········ 1981 ━━━

PULP, PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 1980 Tons	$000	OCT. 1981 Tons	$000	NOV. 1981 Tons	$000	(1) Annual Rate Y-T-D 1981	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	236813	10866	20801	1240	11820	598	173254	-14.5
Pulpwood Chips	1723748	45899	152139	4038	135784	4175	1703377	-0.5
Total All Imports	12957685	5136214	1201394	541676	1061598	476236	12675408	-2.5
Wood Pulp, Total	4050919	1683835	406032	175351	318054	143527	4153992	2.4
Waste Paper	87064	17188	6388	961	5840	936	70141	-20.0
Other Fibrous Materials	41818	14083	4964	1703	5333	1972	54938	31.0
Paper,Paperbd&Products,Total	8777883	3421108	784011	363661	732271	329801	8396335	-4.8
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	8682441	3169796	773411	331152	723975	303124	8300843	-4.8
Paper, Total	8109064	3060491	725526	320610	690786	295473	7745122	-4.7
Newsprint	7279349	2637857	648721	275345	623889	254640	7003421	-3.9
Printing & Writing	739682	363246	68414	38254	60150	35222	637751	-15.1
Uncoated Groundwood	487971	204873	48051	23763	41677	21339	461161	-5.0
Uncoated Book	115528	62466	11599	6755	12218	7289	111798	-5.8
Coated Print.& Impres. Pap	114927	68868	5035	3477	3029	2833	39395	-67.6
Bristols	1077	739	224	74	68	75	912	-20.0
Writing and Similar Paper	13858	18119	1698	1864	1195	1625	12816	-4.5
Thin (except Cigarette)	6321	8181	1807	2321	1364	2062	11671	81.0
Total Pkg & Other Paper	85912	56929	7477	6386	6088	5146	96747	16.4
Unbleached Kraft Paper	33889	14293	2138	1014	1532	786	34189	3.1
Other Pkg. & Indust. Paper	52023	42636	5339	5372	4555	4360	62558	25.2
Tissue	4121	2461	915	625	661	464	7202	63.8
Paperboard, Total	97583	25576	11995	3230	8045	2240	135574	37.8
Test or Containerboard	43472	11340	1783	469	1998	486	51105	18.2
Semi-Chemical Corrugating	31349	6156	6969	1596	3724	848	53537	71.8
Other Paperboard	22762	8080	3243	1166	2324	908	30931	33.0
Wet Machine Board	2116	1335	197	153	129	82	1722	-18.3
Construction Paper & Bd. *	473678	82393	35693	7159	25015	5329	418425	-14.5
Building Paper	435666	73238	31749	5970	21472	4278	375506	-17.0
Insulating Board	20208	4765	2400	690	1927	589	26207	33.7
Other Building Board	17804	4391	1544	498	1616	462	16712	-4.3
Convtd Paper&Paperbd Products	95442	251312	10599	32509	8296	26677	95482	-2.4
Paper Products, Total	89328	238025	9864	30931	7630	25107	87624	-4.4
Paperboard Products [illegible]tal	6114	13287	735	1578	667	1571	7868	28.3
Notes								
Other: No Weight Avail. ([illegible]00)		82139		12025		9504	127603	56.4
Total Imports Incl. Othe[illegible]000)		5218353		553701		485740	5623769	7.9

EXPORTS

							(1)	
Pulpwood, Roundwood (in cords of 128 cu. ft.)	185526	9389	20053	1310	22797	1358	189208	4.4
Pulpwood Chips	4478234	377409	315936	26304	281387	22600	3916639	-13.4
Total All Exports	11832242	4839634	793818	380008	795359	375522	10741138	-9.6
Wood Pulp,Total	3805549	1652099	274506	124136	266642	121295	3668556	-3.5
Cotton Pulp and Other Pulp	148485	92607	12271	7956	12013	8338	134148	-11.8
Waste and Old Paper	2664272	322195	177157	22041	169825	20635	2249599	-16.9
Paper, Paperbd&Products, Total	5213936	2772733	329884	225875	346879	225253	4688836	-10.1
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	4581878	2052406	283047	157135	296807	159161	4076960	-11.1
Paper, Total	907447	737363	71216	63791	87740	71100	1018678	13.2
Newsprint	174869	86403	19346	10321	31167	16235	271528	57.5
Printing & Writing	340859	306098	31260	28812	29807	26975	391405	15.3
Uncoated Groundwood	100951	71718	12014	8321	8546	6643	122370	20.7
Clay Coated Paper	92351	75160	7180	6255	7610	6701	89784	-2.7
Uncoated Free Sheet	88313	94826	8223	9597	9098	8615	119470	39.2
Other Printing & Writing	59244	64396	3843	4640	4553	5015	59801	-0.5
Total Pkg. & Other Paper	330780	291341	18356	22372	24293	25000	301953	-7.7
Unbleached Kraft	142825	61346	6480	2898	11975	5540	112634	-21.8
Other Pkg. & Indust. Paper	187955	229995	11876	19474	12318	19460	189319	3.3
Tissue	60939	53521	2255	2286	2473	2890	53793	-11.8
Paperboard, Total	3608752	1283130	208717	90582	203094	85442	2976590	-17.8
Solid Wood Pulp	3359998	1182718	196840	85335	191278	79159	2798947	-17.1
Total Linerboard	2527245	790070	126646	44128	133587	44028	2005765	-21.6
Bleached Kraft Linerboard	233924	75960	3572	1726	15728	4490	159111	-27.0
Unbleached Kraft Linerbd	2293322	714110	123074	42402	117859	39538	1846655	-21.1
Other Unbleached Kraft	183825	60633	11470	5006	10714	4600	148662	-10.6
Other Bleached Kraft	606044	314751	52826	34525	45369	30009	585768	-1.9
Semi-Chemical Corrugating	62884	17264	5898	1676	1609	522	59751	6.5
Recycled Paperboard	248754	100412	9877	5247	11816	6282	176643	-27.1
Wet Machine Board	8017	5258	949	597	1026	576	11040	44.8
Construction Paper & Bd. *	57662	26655	4165	2165	4947	2043	70652	22.5
Building Paper	31436	13299	1610	787	2746	1155	23075	-28.5
Insulating Board E	26226	13356	2555	1378	2201	888	47577	87.3
Convtd Paper&Paperbd Products	632058	720328	46836	68741	50073	66092	611876	-3.1
Paper Products, Total	378581	523511	28977	50567	30872	48306	361534	-4.8
Paperboard Pruducts, Total	253477	196817	17859	18174	19100	17786	250342	-0.3
Notes								
Other: No Weight Avail. ($000)		10300		575		860	10235	-1.5
Total Exports Incl. Other($000)		4849934		380583		376382	4947465	2.5

* Hard Pressed Board (not in total)

Imports of Hard Pressed Board	172023	32469	19158	3924	14853	3266	191831	12.4
Exports of Hard Pressed Board	28900	10706	7211	2134	3954	1288	61178	117.2

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PAPER AND PAPERBOARD PRODUCTION

CENSUS DATA

(Thousands of Tons)

	YEAR 1979	YEAR 1980	JULY 1981	AUG. 1981	SEPT 1981	OCT. 1981	Annual Rate Y-T-D 1981	% Change From same Period Last Year
PAPER					R	P		
Newsprint	3778	4660	460	456	439	477	5302	13.7
Uncoated Groundwood Papers	1800	1538	111	127	114	127	1476	-4.3
Coated Papers	4580	4751	397	415	425	428	5006	6.0
Uncoated Free Sheet (1)	7655	8006	613	648	659	668	7920	-1.7
Cotton Fiber Paper (1)	130	131	8	9	9	10	118	-8.8
Thin Papers	371	333	25	28	27	29	342	2.0
Bleached Bristols	957	941	68	88	82	80	961	2.4
Tissue Paper	4601	4474	361	385	384	411	4583	1.6
Unbleached Kraft Packaging & Industrial Conv. Papers(1)	3911	3718	277	303	302	301	3697	-2.2
Other Paper (1)	1797	1609	130	143	133	140	1626	0.6
TOTAL PAPER GRADES	29580	30164	2451	2603	2557	2671	31030	2.4
PAPERBOARD								
Solid Wood Pulp Furnish	23585	23902	1888	2072	2059	2002	24735	2.6
Unbleached Kraft Linerboard	13857	14249	1171	1280	1255	1183	14820	2.8
Other Unbl. Kraft Paperboard	1046	1036	100	80	82	87	1080	3.8
Bleached Kraft Paperboard	4085	4034	334	341	340	336	4125	1.3
Semi-Chemical Paperboard	4617	4583	383	370	382	386	4710	2.7
Recycled Paperboard	7583	7242	555	633	629	638	7548	4.5
TOTAL PAPERBOARD GRADES	31168	31143	2543	2705	2688	2640	32283	3.0
WET MACHINE BOARD	144	138	12	14	14	14	158	17.4
CONSTR. PAPER & INSUL. BOARD	3131	2420	173	166	141	137	2072	-15.8
TOTAL ALL GRADES [Excl. H.P.B.]*	64023	63865	5179	5488	5398	5462	65545	2.0

PRODUCER PRICE INDEXES

1967 = 100

	1979	1980	SEPT	OCT.	NOV.	DEC.		
Pulp, Paper and Products	219.0	249.2	276.9	279.1	280.2	280.7	273.5	9.7
Pulp, Paper & Products, except Waste Paper #	219.2	249.9	278.5	281.0	282.5	285.5	275.3	10.2
Total Wood Pulp	314.3	380.3	386.6	404.7	417.0	417.0	398.1	4.7
Total Paper	229.6	256.9	287.1	288.6	287.1	287.5	280.0	9.0
Total Paper, exc. Newsprint	222.8	248.3	277.1	279.1	279.4	279.1	271.2	9.8
Newsprint	249.8	279.7	320.0	320.0	314.4	316.8	307.8	10.1
Total Paperboard	202.1	234.6	262.5	262.6	261.6	259.3	258.2	10.1
Total Paper and Paperboard #	220.9	249.9	279.4	280.4	279.1	278.7	273.2	9.4
Converted Products	209.9	238.5	263.0	263.9	263.9	263.8	259.0	8.6
Waste Paper	208.9	208.7	178.5	165.1	144.5	143.4	175.7	-15.8
All Commodities	235.5	268.8	285.5	286.4	265.5	285.9	283.4	9.1
Industrial Commodities	236.4	274.8	307.2	308.8	309.1	310.1	304.0	10.7

(1) - Grade definitions revised by Census as of January 1979. New grades now consistent with API definitions. 1977 and 1978 Census data adjusted by API for comparability with 1979.

* See page 3 for Hard Pressed Board data. # Computed by API P-Preliminary R-Revised

SOURCES: Production - Bureau of Census, U.S. Department of Commerce
Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor

Continued from Page 2

PAPER AND PAPERBOARD

	1979	1980	1981
Paper and Paperboard (Excluding Construction and Wet Medium Board Grades)			
Production (000 Tons)	61,319	61,143	62,320
Imports (000 Tons)	8,738	8,302	7,970E
Exports (000 Tons)	3,609	5,148	4,520E
New Supply (000 Tons)	66,448	64,297	65,770
New Supply/Real GNP	44.8	43.4	43.6

Production by Grade

Paper: Total paper production, based on the preliminary data shown on page 3, established a new high in 1981. At 31.0 million tons, the total was 2.6% above the 1980 high and 3.7% above the 1979 level. Among the major grades, newsprint turned in by far the strongest performance. Total production reached 5.2 million tons, 12% above the 1980 total and 29% above that of 1979. This strength, as noted in earlier reports, reflected the introduction of several new newsprint machines during the past few years. Newsprint capacity increased from 4.2 million tons in 1979 to 4.8 million tons in 1980 and 5.3 million tons in 1981. The U.S. newsprint industry expects to add an additional 608,000 tons of capacity in the 1982-1984 period, to bring the 1984 total to 5.9 million tons.

The increase in domestic production in 1981 amounted to 567,000 tons. Part of this came at the expense of imports, which declined by about 280,000 tons, or 4% of the 1981 import total. Exports of newsprint accounted for another 95,000 tons, and total new supply rose by about 190,000 tons. However, inventories of newsprint at newspaper publishers rose by 427,000 tons during the first 11 months of 1981. Total U. S. newsprint consumption, according to the data from the American Newspaper Publishers Association held very close to the 1980 level in 1981.

Total production of printing and writing papers also reached a new high in 1981. At 15.8 million tons, the 1981 total was 1% above the 1980 high and 2.3% above the 1979 level. Printing/writing paper capacity has also increased significantly during the past few years, rising from 16.1 million tons in 1979 to 17.3 million tons in 1981. Producers expect to add another 1.9 million tons of capacity in the 1982-1984 period, bringing the 1984 total to 19.2 million tons.

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Available data indicate that use of printing/writing papers continued to expand in 1981. For example, data on activity at printing and publishing plants other than newspapers in 1981, as reported in the Federal Reserve Board's Index of Production, showed activity about 4.5% above the 1980 level. Sales by paper merchants as shown by the data on wholesale sales (see yellow Industry Data Sheet) rose about 14% in 1981, which was well above the increase in paper prices as reported in the Bureau of Labor Statistics' price indexes. The 1981 printing/writing paper production totals were also supported to a small degree by an estimated 100,000 ton (14%) decline in imports and a 40,000 ton (11%) increase in exports.

The production of packaging and industrial grades, by way of contrast, showed a small decline in 1981, spread over both the unbleached and bleached grades. Exports of these papers fell about 30,000 tons (10%) while imports rose about 10,000 tons (also 10%). In the 1970 decade production of these grades averaged 5,560,000 tons per year, ranging from 5.2 to 5.9 million tons. (This excludes the 1975 recession low.) The preliminary 1981 total of 5.5 million tons is only 1% below the normal 1971-1980 average. These grades are meeting strong competition from various types of plastic packaging and industrial materials. Producers indicate a 1.3% increase in capacity in the 1982-1984 period, compared to a 0.2% per year increase in the preceding 15 years.

Paperboard: Total paperboard production in 1981 was reported at 31,338,000 tons (see page 3), 1.2% above the 1980 total and only 0.3% below the record-high established in 1979. The 1981 production total was affected by a 789,000 ton (24%) decline in production for export so that production of paperboard for domestic use rose 4.3% from 1980 to 1981. The decline in exports reflected reduction in shipments to virtually all the major export markets. Production of containerboard for domestic use in 1981 was 5.9% above its 1980 level. However, as noted earlier, 698,000 tons of this moved into inventories at mills and boxplants. Average output in end-use markets, weighted by their respective use of boxes, rose by about 3%, while total shipments of fibre boxes, as reported by the Fibre Box Association, fell somewhat below that pace, amounting to 245 billion square feet in 19811.6% above the 1980 total.

Production of bleached paperboard rose 1.6% from 1980 to 1981. Production for export rose only 9,000 tons to 554,000 tons apparently ending the previously established strong export trend -- at least temporarily. The strength in the domestic demand for solid bleached kraft folding boxboard grades (up 5.4%) and cup stock (up 5.8%) was offset by weakness in the demand for milk carton stock and plate, dish and tray stock.

Production of recycled paperboard, which had been moving above year-ago levels throughout 1981, ended the year 1,000 tons below the 7,071,000 tons produced in 1980. The packaging grades of recycled paperboard held up fairly well, with coated recycled folding boxboard showing a 2.7% gain, tube, can and drum stock up 4.4% and set-up boxboard off only 2.1%. Production of gypsum wallboard facings was down by 21,000 tons (2%), while production for export dropped 62,000 tons (off 74%).

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INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

JANUARY 29, 1982

	PRODUCTION (000 TONS)					
	Dec. 1981	Nov. 1981	Dec. 1980	Jan - Dec. 1981	Jan - Dec. 1980	% Change 81/30
PAPER GRADES	P	R				
Newsprint	395	454	373	5239	4672	12.1
Uncoated Groundwood (s)	111	117	124	1440	1498	-3.9
Coated Paper (s)	363	399	403	4925	4673	5.4
Uncoated Free Sheet Paper (s)	553	630	640	7861	7983	-1.5
Thin Paper (c)	25	26	30	336	343	-1.9
Cotton Fiber Paper (s)	9	10	10	119	126	-5.4
Bleached Bristols (s)	85	88	80	1087	982	10.7
Tissue Paper	350	375	347	4485	4375	2.5
Unbleached Kraft Packaging & Indl. Converting (s)	269	326	304	3891	3930	-1.0
Other Paper (c)	115	130	130	1600	1609	-0.5
TOTAL PAPER	2276	2555	2440	30982	30191	2.6
PAPERBOARD GRADES						
Kraft Linerboard, Unbleached	908	1175	1032	14558	14232	2.3
Other Kraft Paperboard	67	72	71	1067	1063	0.3
Semichemical Paperboard	320	376	360	4717	4723	-0.1
Bleached Paperboard	269	315	296	3926	3862	1.6
Recycled Paperboard	472	543	554	7070	7071	-0.0
TOTAL PAPERBOARD	2035	2482	2313	31338	30952	1.2
CONSTRUCTION & WET MACH GRADES(c)	137	147	190	2144	2558	-16.2
TOTAL PAPER AND PAPERBOARD	4448	5183	4943	64463	63701	1.2
HARD PRESSED BD.[not in total](c)	105	120	172	1878	1970	-4.6

WOOD PULP (ALL GRADES)		Nov. 1981	Oct. 1981	Nov. 1980	Jan - Nov. 1981	Jan - Nov. 1990	% Change 81/80
Dissolving & Special Alpha		129	113	124	1281	1383	-7.4
Bleached Sulphite		111	119	125	1302	1336	-2.5
Unbleached Sulphite		36	35	32	370	354	4.5
Bleached & Semi-Bl. Sulph.		1702	1809	1616	18668	17550	6.4
Unbleached Sulphate		1566	1634	1621	18272	18168	0.6
Semichemical		301	326	341	3662	3731	-1.9
Groundwood and Thermo-Mechanical		407	423	366	4603	4186	9.9
TOTAL PULP DIVISION DATA		4251	4459	4225	48156	46709	3.1
Defib. Exploded & Scrngs E	R	158	170	218	2223	2402	-7.5
TOTAL WOOD PULP PRODUCTION	R	4409	4629	4443	50379	48111	2.6

Note: Paperboard cumulative totals include revisions not available monthly.

(s) - Shipments R - Revised E - Estimate
P - Preliminary (c) - Census Data - Production, last 2 months estimated.

February 1, 1982

	Full Year		INDUSTRY DATA			Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1979	1980	October	November	December	1981	
Total Production (API).......| |...	64594	63701	5473	5183	4448	64463	1.2
Total Seasonally Adjusted....| excluding |...			5253	5237	4952	64518	1.3
Imports (including Products).|hard pressed|..E	9123	8778	784	732	N.A.	8380E	-4.5
Exports (including Products).| board |..E	3672	5214	330	347	N.A.	4600E	-11.8
Apparent Consumption.......| |...	70045 a	67265 b	5708	5323	5332 E	68243c	1.5
Paper Production % Tonnage Capacity...........	95.9 s	92.8 s	90.6	89.0	76.2	92.1Rsh	-
Paperboard Production % Tonnage Capacity......	94.0 s	91.5 s	87.5	85.4	67.2	91.5Rs	-
			September	October	November		
MARKET WOOD PULP PRODUCTION - Tons (000)........	5678	6488	478	559	538	6291	-4.0
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)....	48367	50560	4305	4459	4251	52534	3.1
WOOD PULP IMPORTS - TONS (000).................	4318	4051	279	406	318	4154	2.4
WOOD PULP EXPORTS - TONS (000).................	2935	3806	347	275	287	3869	-3.5
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS			September	October	November		
Wood Pulp..(K)...............................	48804	48426	4240	4389	4102	51471	3.4
Waste Paper....(d)...........................	15361	14922	1289	1345	1225	15684	4.5
Other (Census)..............................E	702	607	49	47	45	631	4.3
Total................	65867	64955	5578	5781	5372	67795	3.7
..WOOD PULP - NON PAPER......................E	913	825	67	64	64	792	-3.8
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	79566	90522	6845	7058	6459	80668	-0.5
EMPLOYMENT (000)			October	November	December		
Paper and Allied Products..........Total......	706.8	694.0	691.4	686.4	682.8	692.4	-0.2
Pulp, Paper and Board Mills........Total.....E	271.4	269.0	265.9	265.0	264.2	268.5	-0.2
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products.....................	7.13	7.84	8.82	8.90	8.93	8.60	9.6
Pulp, Paper Mills............................E	8.26	9.15	10.41	10.49	10.51	10.06	9.9
Paperboard Mills.............................E	8.38	9.29	10.37	10.52	10.57	10.22	10.2
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1981 Q2	1981 Q3	1981 Q4		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	5.55	6.80	6.42	7.01	6.56	6.72	-1.2
INDEX OF OUTPUT PER MAN-HOUR (1977=100).........			October	November	December		
|IN PULP, PAPER |...Production Worke...........	106.0	107.8	108.7	109.4	105.3	108.1	0.3
|AND BOARD MILLS|...All Employees..............	105.3	106.3	107.5	107.1	104.1	107.0	0.6
PAPER AND ALLIED PRODUCTS (Million $)			September	October	November		
Industry Shipments (Dept. of Commerce)*.......	66074	71736	6537	6489	6530	77703	9.0
Pulp, Paper and Paperboard*.................	28771	31952	3042	2823	2925	34234	7.8
Inventories (End of Period) - Total Industry*.	7079	7798	8588	8664	8824	8824	12.8
Pulp, Paper and Paperboard*.................	2435	2794	3123	3213	3294	3294	15.6
			1981 Q1	1981 Q2	1981 Q3		
Sales (Corporations Only, FTC)............ ..	55359	54737	14402	15249	15271	59896	10.7
Earnings (Corporations Only, FTC)............	3724	2781	758	853	625	2981	6.9
Depreciation (Corporations Only, FTC)........	1856	1990	534	550	565	2199	12.0
Net Worth (Corporations Only, FTC)...........	23206	23873	24340	25000	25238	25238	7.3
PRICE INDEXES (Bureau of Labor Stats)1967=100			October	November	December		
Total Pulp, Paper and Allied Products.........	219.0	249.2	279.1	280.2	280.7	273.5	9.7
Wood Pulp.....................................	314.3	380.3	404.7	417.0	417.0	398.1	4.7
Waste Paper...................................	206.6	208.7	165.1	144.5	143.4	175.7	-15.8
Paper...	229.6	256.8	288.6	287.1	287.5	280.0	9.0
Paperboard....................................	202.1	234.6	262.6	261.6	259.3	258.2	10.1
PAPER DEMAND (INDEXED: 1967=100)			October	November	December		
Total Paper Production *......................	142.9	143.9	148.7	148.0	139.0	146.1	2.9
Paper New Supply *............................	138.2	136.1	142.3	139.3	131.1	137.6	1.1
Total End - Use Index *.....................	145.0	146.3	151.4	149.5	149.1	150.3	2.7
Production of Nondurable Goods *...(19%)..	164.1	161.2	163.2	160.5	157.2	164.7	2.2
Disposable Income (Constant $) *...(23%)..	150.0	151.0	155.4	155.4	155.3	154.3	2.[illegible]
Total Printing and Publishing *...(58%)..	136.8	139.5	145.9	143.5	144.0	143.9	3.[illegible]
Trend Factor	----------	----------	------Not	Available------	----------	----------	----------
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production **	137.9	135.4	132.2	131.7	124.8	137.4	1.3
Production for Domestic Use	135.5	128.3	129.8	128.0	122.7	133.8	4.4
Total End - Use Index *.....................	152.0	146.1	147.8	145.1	141.9	149.3	2.2
Production of Consumer Goods *...(60.49%)	150.6	145.4	146.9	145.0	142.3	147.9	1.8
Production of Equipment *...(6.62%)	142.2	145.2	152.2	151.0	149.9	151.5	4.3
Production of Materials *...(32.89%)	156.4	147.6	148.5	144.1	139.5	151.5	2.6
Trend Factor	----------	----------	------Not	Available------	----------	----------	----------
NEWSPRINT MARKETS			September	October	November		
Consumption by Publishers - Tons (000)........	11240	11121	925	1016	1000	11143	0.6
Newspaper Pub. and Printing Empl. Total(000)..	420.1	422.8	433.4	436.6	438.5	431.2	2.1
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)..........	114956	118118	11353	12067	14045	121602	2.9
WHOLESALERS SALES AND INVENTORIES (Million $)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	19271	21643	2198	2275	2045	24849	15.5
Inventories (End of Period)	1671	1849	2072	2084	2080	2080	14.3
Paper Only..............................Sales	14510	15879	1603	1636	1451	17972	13.9
Inventories (End of Period)	1124	1248	1371	1349	1354	1354	11.4
RETAIL TRADE (Million $)			October	November	December		
Total Retail Sales *..........................	882496	953984	86660	87233	87541	1044685	9.5
Nondurable Goods Stores Sales *.............	588697	656231	60341	60730	60930	716434	9.2
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	152.5	147.0	149.2	146.4	143.3	150.9	2.6
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	235.5	268.8	296.4	295.5	295.9	293.4	9.1
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	217.4	246.8	279.9	280.7	281.5	272.3	10.3
			September	October	November		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	312.0	313.4	328.3	328.8	328.9	328.9	6.8
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billions$).			1981 Q2	1981 Q3	1981 Q4		
G.N.P. or Expenditure - Current $.............	2413.9	2626.1	2885.8	2965.0	2984.9	2922.2	11.3
G.N.P. OR Expenditure - 1972 $................	1483.0	1480.7	1510.4	1515.8	1495.6	1509.5	2.0

lb/capita	Popul.(mil)
.a - 622	225.1
.b - 581	227.7
.c - 594	229.7

.d - 1979 - 13012; 1980 - 12583
. Jan-Oct.'81 ARY-T-D - 13685
. (000 tons) as pub. by Census
.E - Last month estimated by API

F - Wood Pulp Production excludes estimates for def. expl. & scrngs. Prod. was: 1979 - 3,080R; 1980 - 2622R; 1981 2425R (000TNS)
s - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
K - Excludes consumption of defib. & expl. pulp for hard p. bd.: '79 - 1538R; '80 - 1378R (000 tons)

N.A. - Not Available
P - Preliminary
q - Quarter
R - Revised
RS - Revised Series
y - Full year estimated by U.S. Dept. of Commerce
* - Seasonally adjusted

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A2500-2

3/82

Paper Paperboard & Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 60 - No. 2 FEBRUARY 1982

Production remains low in January

Preliminary data indicate that the production of paper, paperboard and construction and other grades totalled about 5.1 million tons in January 1982, some 8% below the January 1981 total. Adjusted for seasonal and workday factors, the rate of production, measured by the December 1981-January 1982 average, was at 60.7 million tons per year, only slightly below the November-December 1981 rate. (The two-month average is used for the seasonally adjusted trend of production to iron out irregular and random fluctuations.)

This leveling out in the trend is encouraging. Last January, the rate of paper and paperboard production was at a cyclical peak, at about 66 million tons per year. With the exception of the summer months, when production was supported both by export demand and a temporary recovery in total economic activity, the rate of paper and paperboard production trended downward throughout the year, with the steepest declines occurring during the last quarter. (A table showing monthly data on the production of paper and board, by grades, for all of 1981, and seasonally adjusted data for total paper, paperboard, other grades and the total of all grades is available on request from the Economics Department of API.)

The table on Page 3 shows that, for the most part, production of the various grades of paper in January 1982 moved up close to their November 1981 levels. With the exceptions of newsprint, tissue and uncoated free sheet paper, production of the major grades of paper in January 1982 was well below the year-ago highs. Newsprint production has been far less affected by the current business downturn. Consumption of newsprint in the U.S. held up fairly well throughout 1981, while the increases in domestic newsprint capacity enabled U.S. newsprint producers to supply a larger percentage of the consumption total. In addition, newsprint exports in 1981, at 270,000 tons, were nearly 100,000 tons above the 1980 level. Production of tissue papers also held up fairly well throughout 1981. These papers, representing primarily consumer products, tend to move in line with consumers' purchases of non-durable goods, which generally show modest fluctuations over the business cycle.

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Continued from Page 1

Paperboard production, on the other hand, as a major packaging product, is more responsive to the business cycle. The January 1982 data indicate that the largest impact fell on containerboard production for domestic use, particularly unbleached kraft linerboard. The trend in production of containerboard for domestic use was consistent with that of fiber box shipments. The Fibre Box Association reported that shipments of fiber boxes in January 1982 were 10% below their January 1981 level; production of containerboard for domestic use showed a 12.6% decline. The FBA also reported that inventories of containerboard at box plants, which had been in a rising trend throughout 1981, peaked at the end of the year and fell about 180,000 tons during January 1982. The inventory at box plants as of February 1, 1982 represented about 7 weeks of supply in terms of the current rate of consumption; it was close to 6 weeks of supply in 1980, an average for the industry.

Data Adjustments

The table on page 3 presents the available data on paper and paperboard production for the last three months of 1981 and January 1982. While the 1982 data in this table include data on the production of wet machine board, building paper, insulating board and hard pressed board, these represent API estimates based on recent trends. The actual data for November 1981 and earlier months was obtained from the Bureau of Census' monthly publication, Current Industrial Reports, Pulp, Paper and Board, which Census has been publishing for about 35 years. The Bureau of Census has informed us that it will no longer collect and publish the monthly data after December 1981. It will continue to publish the annual data on production in considerable detail. The annual data have been published 3 or 4 quarters after the end of the year in the past. Although the totals reported in the first paragraph above include API estimates of construction paper and board and wet machine board production to keep the totals consistent with earlier published data, future reports will show industry totals for paper and paperboard only, based on information supplied to us by member companies.

Total production of paper and paperboard, using this definition, amounted to about 4.9 million tons in January 1982, 7% below the January 1981 level. The trend rate of seasonally adjusted production was 58.9 million tons per year.

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PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS

(Thousands of Tons)

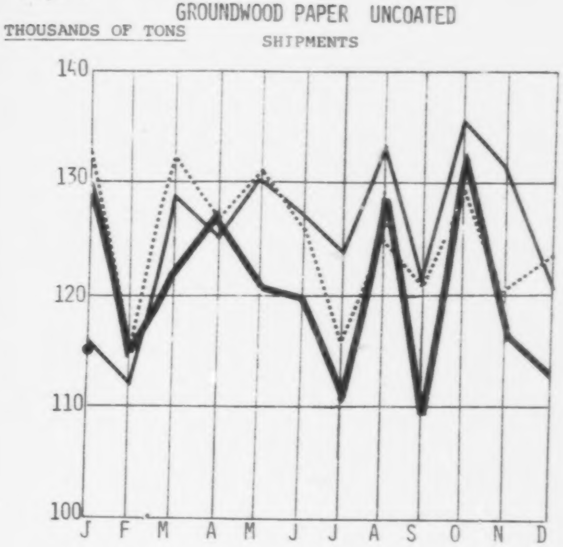
	YEAR 1980	YEAR 1981	OCT. 1981	NOV. 1981	DEC. 1981	JAN. 1982	Annual Rate Y-T-D 1982	% Change From same Period Last Year
PAPER					R	P		
Newsprint - Production	4672	5239	463	454	395	441	5282	5.7
- Shipments	4667	5220	460	449	404	448	5376	8.8
Printing & Writing	15605	15803	1390	1268	1184	1270	15244	-4.9
Groundwood Paper - Shipments	1498	1441	133	116	113	115	1378	-10.5
- New Orders	1475	1426	117	95	122	116	1385	-17.3
- Unfilled Orders	110	112	117	90	112	106	106	-13.1
Coated Paper - Shipments	4673	4951	439	399	389	385	4625	-9.4
- New Orders	4753	4866	448	396	363	384	4614	-2.5
- Unfilled Orders	391	308	324	319	308	311	311	-10.2
Unctd Free Sheet - Shipments	7983	7382	684	630	575	655	7864	-0.7
- New Orders	7694	7706	677	570	592	642	7701	-6.7
- Unfilled Orders	546	402	442	367	402	397	397	-32.6
Thin Paper - Production	343	334	29	25	24	25	300	-10.1
Cotton Fiber Paper - Shipments	126	119	11	10	9	10	118	-3.0
Bleached Bristols - Production	982	1077	94	88	75	80	960	-5.5
Tissue Paper - Production	4375	4484	390	372	351	375	4500	-0.5
Total Packaging & Other Paper	5539	5495	451	460	384	440	5280	-7.3
Unbl. Kraft Paper - Shipments	3930	3891	311	326	269	300	3600	-11.0
Other Paper - Production * #	1609	1604	140	133	115	140	1680	1.6
TOTAL PAPER-Production-UnadJ.	30191	31020	2694	2554	2315	2526	30316	-3.0
-Production-S.A.			2595	2582	2468	2547	30560	-2.7
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	23881	24268	2027	1939	1563	1855	22258	-11.0
Unbl. Kraft Linerboard (1)	14232	14558	1217	1175	908	1077	12926	-12.8
Production For Export	2380	1824	130	152	115	121	1572	-7.5
Other Unbl. Kraft Paperboard	1063	1067	94	72	67	98	1175	1.5
Semichemical Paperboard	4723	4717	396	376	320	375	4503	-8.0
Production For Export	322	140	9	9	8	11	136	4.2
Solid Bleached Paperboard	3862	3926	319	315	269	305	3655	-11.0
Production For Export	545	554	45	45	45	43	515	17.1
Recycled Paperboard	7071	7070	601	543	472	545	6542	-12.8
Production For Export	83	21	1	1	2	1	15	-68.5
TOTAL PAPERBOARD-Prod.-Unadj.	30952	31338	2628	2482	2035	2400	28802	-11.4
- Containerboard Prod.(Dom. Use)	18070	19138	1634	1541	1227	1442	17303	-12.6
- Boxboard Prod.(Dom. Use) (2)	5477	5560	469	431	363	441	5298	-12.1
- All Other P'bd Prod.(D.U.) (2)	4075	4099	339	303	276	330	3964	-9.1
- Total Paperbd Prod. For Export	3329	2540	185	207	170	186	2237	-3.4
TOTAL PAPERBOARD PROD. - S.A.			2515	2504	2372	2437	29241	-10.9
WET MACHINE BOARD *	138	151	14	9	9	10	118	-10.1
BUILDING PAPERS *	1369	1159	81	82	75	77	928	-24.8
INSULATING BOARD *	1051	829	56	55	50	52	624	-29.9
TOTAL ALL GRADES - Unadjusted	63701	64496	5472	5181	4485	5066	60787	-7.9
- Production - S.A.			5252	5235	4990	5132	61582	-7.5
HARD PRESSED BD. [not in total]*	1970	1863	136	110	100	107	1284	-33.1

* Census Data - Production. Last two months estimated.
# 1981 data estim. by API to conform to revised data for prior years.
(1)Includes all exports of Kraft paperboard.
(2)Data for unbl. Kraft folding boxboard incl. in aAll Other P'bd.

S.A. Seasonally Adjusted
P Preliminary
R Revised

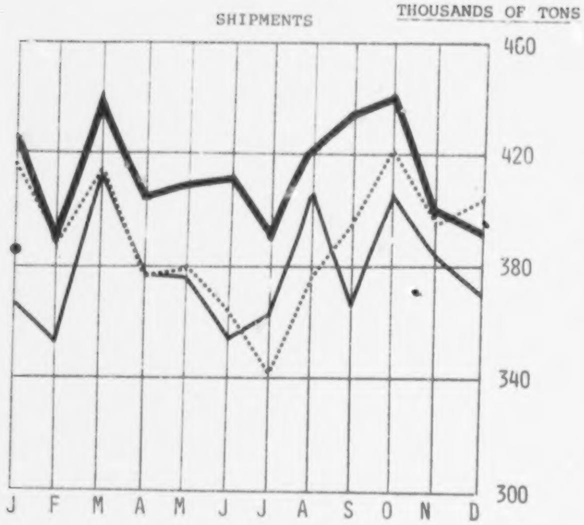
GROUNDWOOD PAPER UNCOATED

SHIPMENTS



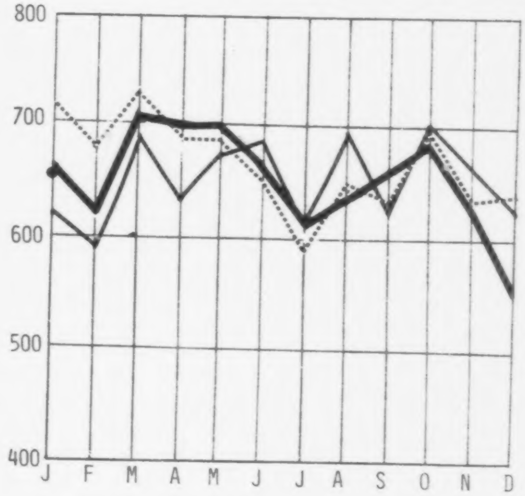
COATED PAPER

SHIPMENTS



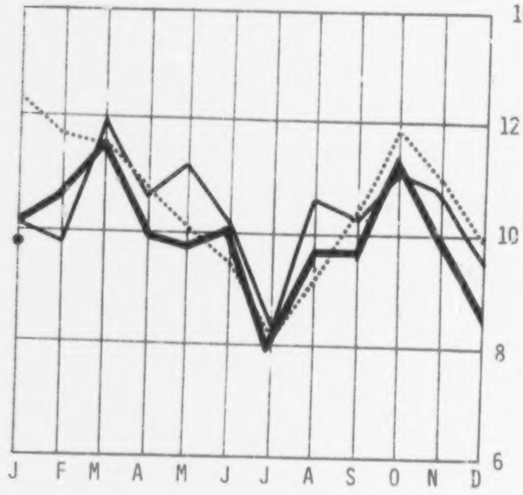
UNCOATED FREE SHEET PAPERS

SHIPMENTS



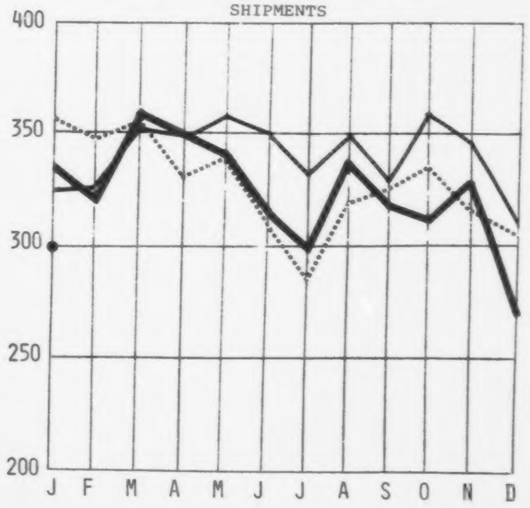
COTTON FIBER PAPER

SHIPMENTS



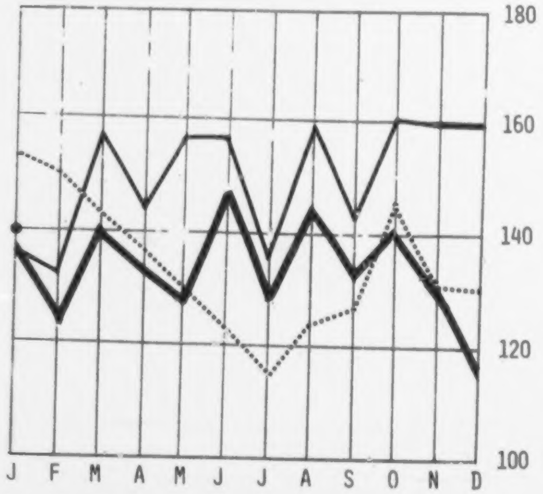
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1979 —— 1980 ········ 1981 ━━ ● 1982

WOOD PULP STATISTICS

(Thousands of Tons)

	YEAR 1979	YEAR 1980	SEPT 1981	OCT. 1981	NOV. 1981	DEC. 1981	Annual Rate Y-T-D 1981	% Change From same Period Last Year
TOTAL WOOD PULP (1)					R	P		
Total Wood Pulp - Production	49367	50737	4305	4485	4267	3590	51985	2.5
- Imports	4318	4051	279	406	318	269	4077	0.6
- Exports	2935	3806	347	275	267	315	3678	-3.4
- New Supply	50750	50982	4238	4616	4318	3544	52384	2.8
Dissolving Pulp - Production	1497	1506	102	113	129	85	1363	-9.5
- Imports	193	263	28	32	13	15	238	-8.0
- Exports	764	769	63	62	53	85	784	1.9
- New Supply	926	1002	67	83	89	14	820	-18.1
Paper Grades Chemical Pulp - Production	39416	40438	3429	3597	3398	2806	41376	2.3
- Imports	3923	3615	246	349	288	250	3655	1.1
- Exports	2100	2958	283	211	213	226	2870	-2.9
- New Supply	41239	41095	3392	3735	3472	2830	42161	2.6
Groundwood and Thermo-Mech. - Production	4394	4767	453	450	441	420	5320	11.6
- Imports	201	173	5	25	18	4	183	5.5
- Exports	70	81	1	2	0	4	24	-70.3
- New Supply	4525	4859	458	473	458	421	5478	12.7
Semi-Chemical - Production	4060	4026	321	325	300	280	3924	-2.5
- Imports	0	0						
- Exports	0	0	------ Included	with	Groundwood	Pulp ------		
- New Supply	4060	4026	321	325	300	280	3924	-2.5
MARKET WOOD PULP								
Total Market Wood Pulp - Production	5678	6488	478	560	541	419	6190	-4.6
- Imports	3046	2947	244	263	214	233	2914	-1.1
- Exports	2795	3513	353	214	243	339	3352	-4.6
- New Supply	5929	5921	369	609	512	313	5751	-2.9
Dissolving Pulp - Production	1497	1506	102	112	129	85	1337	-11.2
- Imports	306	235	21	26	13	15	231	-1.4
- Exports	869	876	93	43	60	91	787	-10.1
- New Supply	934	865	30	95	82	9	781	-9.7
Paper Grades Chemical Pulp - Production	4118	4913	376	448	412	334	4852	-1.3
- Imports	2734	2687	219	234	198	215	2634	-1.9
- Exports	1880	2588	260	171	183	248	2555	-1.2
- New Supply	4972	5012	335	511	427	302	4930	-1.6
Groundwood Pulp and All Other - Production	63	69	0	0	0	0	1	-97.8
- Imports	7	26	4	3	2	3	48	
- Exports	46	50	0	0	0	0	10	
- New Supply	24	44	3	2	3	3	40	

(1) Prodctn excludes defibrated, exploded & screenings-(000 tons): 1979 - 3,080R; 1980 - 2,625R; 1981 - 2,350R

SOURCES: Total Wood Pulp Imports & Exports - Department of Commerce. Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp & Raw Materials Group, API.

FIBROUS RAW MATERIALS

(Thousands of tons)

	1979	1980	SEPT 1981	OCT. 1981	NOV. 1981	DEC. 1981	Annual Rate Y-T-D 1981	% Change From same Period Last Year
CONSUMPTION AT PAPER & BD. MILLS					R	P		
Total R	66107	65893	5629	5857	5462	4722	67686	2.7
Total Wood Pulp (2) A R	50044	50364	4299	4474	4188	3571	51652	2.6
Market Wood Pulp C, E	5031	4789	435	434	397	360	5100	6.5
Waste Paper (3) A R	15361	14922	1281	1336	1225	1108	15409	3.3
Rags, Straw & Other C, E	702	607	49	47	49	43	625	3.0
INVENTORIES								
Wood Pulp at Pulp Mills A	107	117	191	195	214	187	187	80.0
Market Pulp at Pulp Mills A	132	239	296	407	466	388	388	62.5
Mkt Pulp at Ppr.& Bd. Mills CE	426	449	485	462	443	480	480	7.0
Waste Ppr.at Ppr.&Bd. Mills (4)	904	1110	1208	1223	1265	1338	1338	20.5
Rags, Straw and Other at Paper and Board Mills C, E	61	71	44	45	65	63	63	-11.3
Mkt Wood Pulp Days of Supply A	38	45	50	58	63	70	70	55.2
Wood Pulp Consumption at at Non-Paper Mills C, E	913	825	67	65	61	58	781	-5.3

A - Pulp & Raw Materials Group, API; C - Bureau of the Census; E - Most Recent Month Estimated by API

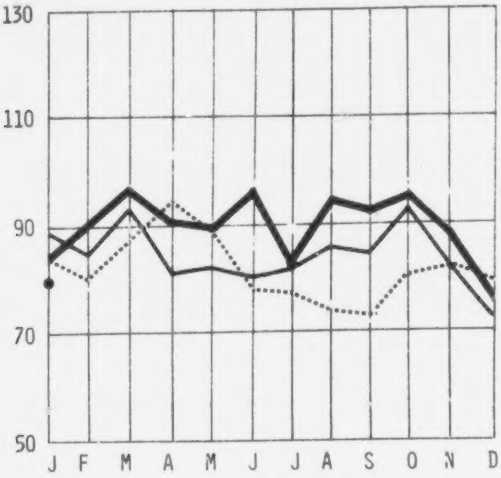
P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

(2) Excl. cons. of defib. & expl. pulp for hard pressed bd.(000 tons): 1979 - 1536R; 1980 - 1376R; 1981 - 1211R

(3) Census Waste Paper Consumption, (000 tons): 1979 - 12,915; 1980 - 12,705; Jan-Nov'81 ARY-T-D - 13,532

(4) Census data prior to 1979; more recent data are from the Paper Stock Conservation Committee, A.P.I.

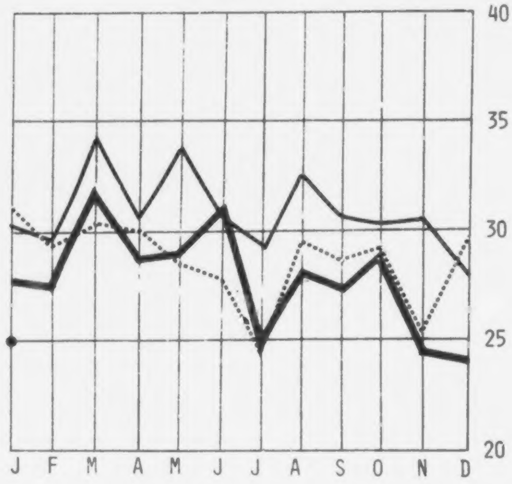
THOUSANDS OF TONS



BLEACHED BRISTOLS

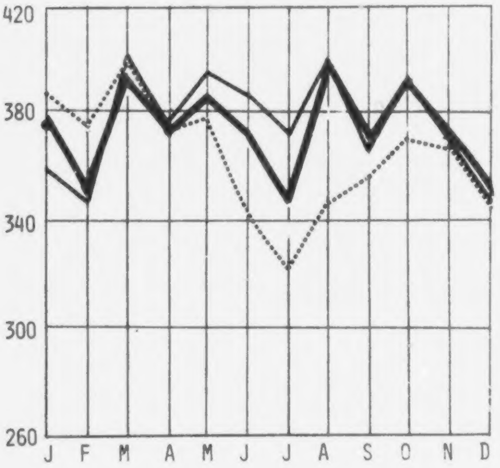
PRODUCTION

THOUSANDS OF TONS



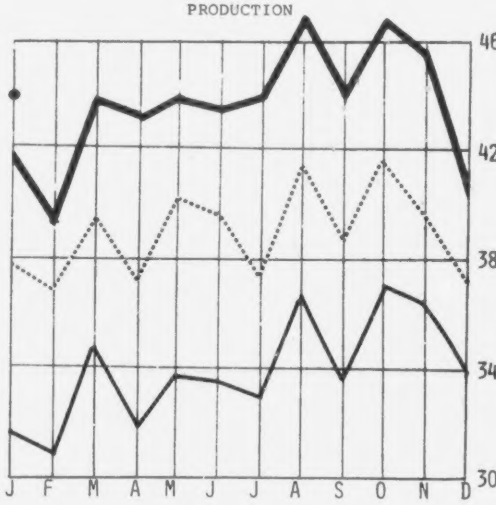
THIN PAPERS

PRODUCTION



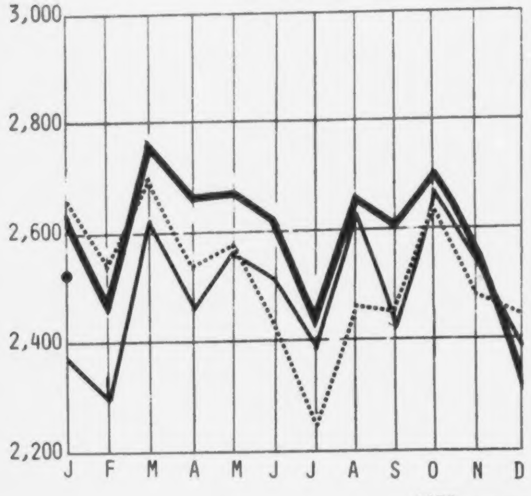
TISSUE PAPER

PRODUCTION



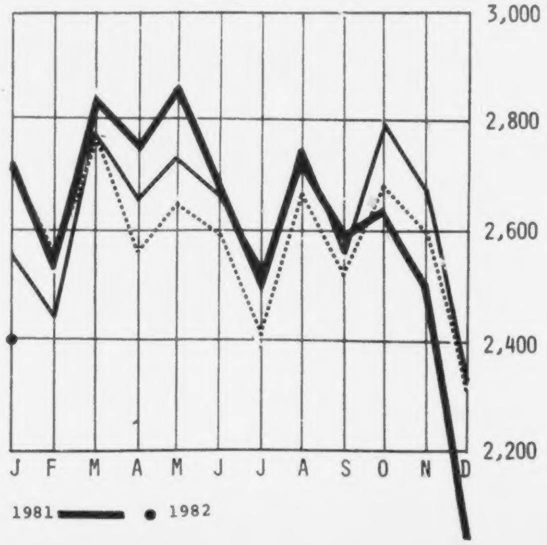
NEWSPRINT

PRODUCTION



TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION

1979 —— 1980 ········ 1981 ▬ ● 1982

FIBROUS RAW MATERIALS (Continued)
(Thousands of Standard (128 cubic foot) Cords)

		YEAR		SEPT	OCT.	NOV.	DEC.	Annual Rate Y-T-D	% Change From same Period
		1979	1980	1981	1981	1981	1981	1981	Last Year
PULPWOOD									
Total U.S.	- Total Receipts	78625	81805	6774	7206	6258	5972	79547	-2.6
	- Total Consumpt.	79566	80522	6645	7058	6459	5658	79604	-1.1
	- Residues *	30015	29402	2517	2680	2316	2247	30590	4.0
	- Inventories	5506	6285	5693	5917	5600	6045	6045	-3.8
So. Atlantic	- Total Receipts	26126	26742	2117	2151	1964	1845	24681	-7.7
	- Total Consumpt	26523	26691	2062	2076	1970	1774	24815	-7.0
	- Residues *	8858	8776	736	756	688	646	8770	-0.1
	- Inventories	1052	1158	917	1000	962	1051	1051	-9.2
Northeast	- Total Receipts	7461	7710	663	767	595	640	7803	1.2
	- Total Consumpt	7584	7487	642	724	615	561	7712	3.0
	- Residues *	1670	1649	97	107	107	101	1362	-17.4
	- Inventories	674	724	671	704	555	635	635	-12.3
South Central	- Total Receipts	26654	27509	2425	2553	2271	2104	27744	0.9
	- Total Consumpt	26432	27074	2402	2487	2276	1934	27687	2.3
	- Residues *	8669	8001	722	791	641	611	8923	11.5
	- Inventories	1472	1830	1412	1546	1581	1825	1825	-0.3
North Central	- Total Receipts	5630	5514	446	485	445	505	5650	2.5
	- Total Consumpt	5535	5292	427	501	488	445	5708	7.9
	- Residues *	1501	1361	132	115	128	114	1439	5.7
	- Inventories	983	1210	1124	1118	1058	1106	1106	-8.6
West	- Total Receipts	12754	14330	1123	1250	983	878	13669	-4.6
	- Total Consumpt	13492	13978	1112	1270	1110	944	13682	-2.1
	- Residues *	9317	9615	830	911	752	775	10096	5.0
	- Inventories	1315	1363	1569	1549	1444	1428	1428	4.8

* - Consumption of Residues in Cord Equivalents.
SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA
IMPORTS FROM CANADA

	YEAR 1980		NOV. 1981		DEC. 1981		Annual Rate Y-T-D	% Change From same Period
	Tons	$000	Tons	$000	Tons	$000	1981	Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	236831	10865	11820	598	8515	478	168317	-28.9
Pulpwood Chips	1723579	45887	135784	4175	123539	4089	1684950	-2.2
Wood Pulp, Total	3853004	1607592	302565	136995	233293	107192	3800713	-1.4
Waste Fibrous Materials, Total	118464	20761	9993	1829	8424	1471	111966	-5.5
Paper, Paperboard&Products, Total	8312713	3038632	706826	295778	626912	268833	8037877	-3.3
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd. *	8262720	2971455	703425	290002	623657	263663	8001585	-3.2
Paper, Total	7719672	2868402	673102	282976	607102	259523	7509823	-2.7
Newsprint	7126839	2578687	619568	252832	556841	233846	6935975	-2.7
Printing, Writing & Rel. Pap.	510412	239837	47621	25876	45488	22027	482408	-5.5
Pack. & Ind. Conv. Paper	77046	45466	5248	3770	4225	3183	82414	7.0
Special Industrial Paper	1418	2077	70	117	131	223	2279	60.7
Tissue Paper	3958	2336	595	381	417	245	6748	70.5
Paperboard, Total	96896	24667	7882	2084	6304	1640	129597	33.7
Wet Machine Board	1464	779	71	43	76	45	1064	-27.3
Construction Paper and Bd. *	444688	77608	22371	4999	10174	2455	361101	-18.8
Convtd Paper&Paperbd Products	49993	65176	3401	5776	3256	5170	36292	-27.4

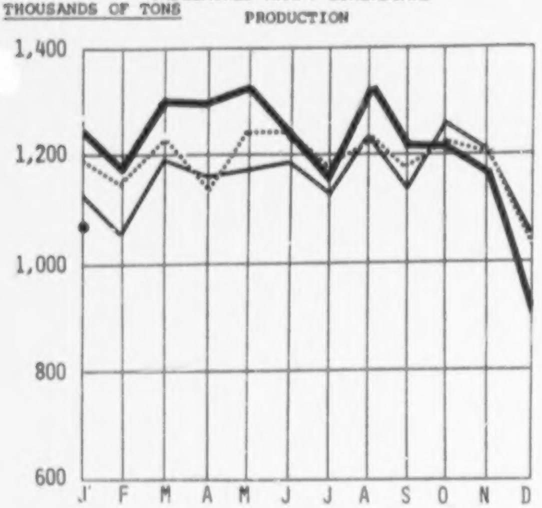
EXPORTS TO CANADA

Pulpwood, Roundwood (in cords of 128 cubic feet)	169622	8862	22797	1356	14867	761	185312	9.2
Pulpwood Chips	23388	934	3623	184	3125	178	38471	64.5
Wood Pulp, Total	147359	51651	7300	4004	6188	3342	118921	-19.3
Cotton Pulp & Other Pulp	10363	5056	248	174	174	125	5900	-43.1
Waste Paper	450762	48737	26649	3167	18803	2266	356523	-20.9
Paper, Paperboard&Products, Total	565979	382416	50085	38472	43409	32731	695992	23.0
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board *	413325	264890	34340	26531	32869	22597	527486	27.6
Paper, Total	216661	180275	19146	18793	16943	15247	278136	28.4
Newsprint	3116	2651	471	355	260	253	8435	170.7
Printing, Writing & Rel. Pap.	117761	91293	11169	9181	7533	7358	162623	38.1
Pack. & Ind. Conv. Paper	16872	11354	2293	1499	1279	815	24365	44.4
Special Industrial Paper	73079	70135	4863	7205	7689	6636	75854	3.8
Tissue	5834	4842	352	553	181	185	6858	17.6
Paperboard, Total	166459	70926	12255	6616	13968	6558	209686	26.0
Wet Machine Board	4105	2437	806	444	516	304	7201	75.4
Construction Pap. & Bd. E *	26101	11251	2131	678	1441	488	32464	24.4
Convtd Paper&Paperbd Products	152654	117527	15745	11941	10540	10134	168505	10.4
* - Hard Pressed Board (not in total)								
Imports of Hard Pressed Bd.	40723	8181	218	454	1324	336	23949	-41.2
Exports of Hard Pressed Bd.	19807	7314	2056	654	2708	769	37484	89.2

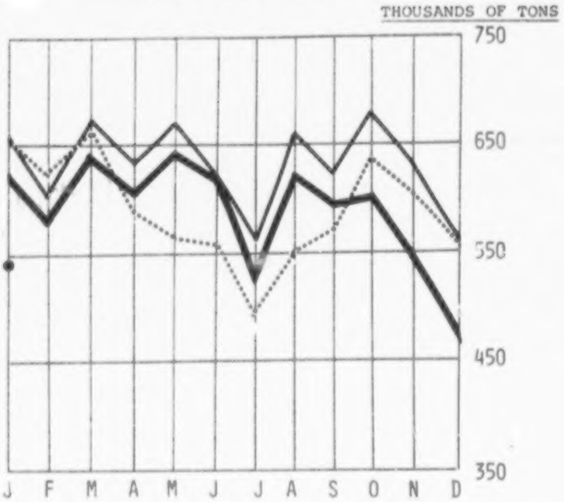
SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

UNBLEACHED KRAFT LINERBOARD

PRODUCTION

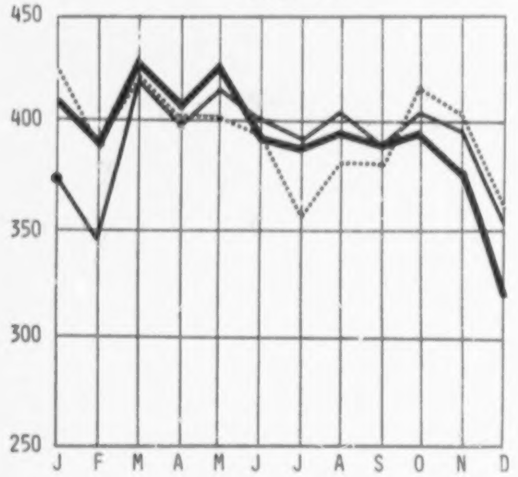


RECYCLED PAPERBOARD



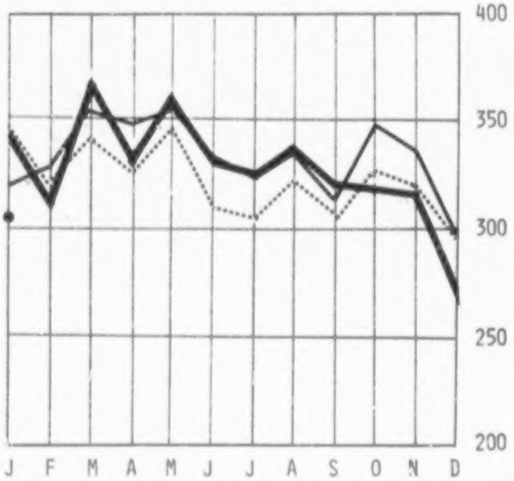
SEMI-CHEMICAL PAPERBOARD

PRODUCTION



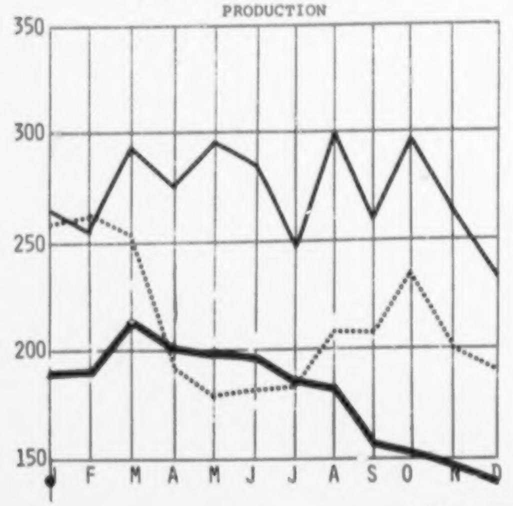
SOLID BLEACHED PAPERBOARD

PRODUCTION



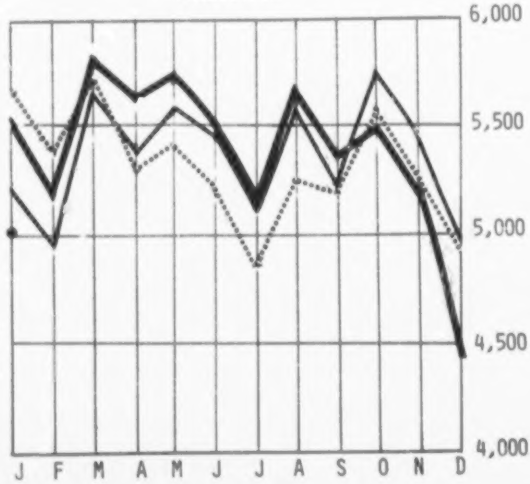
WET MACHINE BOARD AND BUILDING PAPER AND BOARD

PRODUCTION



TOTAL PAPER AND BOARD

PRODUCTION



1979 ——— 1980 ········ 1981 ━━━ ● 1982

PULP, PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 1980		NOV. 1981		DEC. 1981		(1) Annual Rate Y-T-D 1981	% Change From same Period Last Year
	Tons	$000	Tons	$000	Tons	$000		
Pulpwood, Roundwood (in cords of 128 cubic feet)	236818	10866	11820	598	9515	478	188331	-28.9
Pulpwood Chips	1723748	45899	135784	4175	123540	4089	1684869	-2.2
Total All Imports	12857685	5136214	1061598	476236	922953	418981	12542075	-3.2
Wood Pulp, Total	4050918	1683835	318054	143527	268237	118934	4077063	0.6
Waste Paper	87064	17188	5940	936	5825	873	70121	-19.5
Other Fibrous Materials	41818	14083	5333	1972	4016	1709	54376	30.0
Paper,Paperbd&Products,Total	8777883	3421108	732271	329801	643875	296465	8340516	-5.0
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	8682441	3169798	723975	303124	635968	271181	8245075	-5.0
Paper, Total	8109064	3060491	690786	285473	616568	266509	7716263	-4.8
Newsprint	7279349	2637857	623889	254640	557315	234052	6877118	-4.2
Printing & Writing	739682	363246	80150	35222	53933	28068	638538	-13.7
Uncoated Groundwood	487971	204873	41677	21339	36184	17182	458915	-6.0
Uncoated Book	115528	62486	12218	7289	11942	5705	114422	-1.0
Coated Print.& Imprem. Pap	114827	68868	3629	2833	3209	2178	39321	-65.8
Bristols	1077	739	68	75	74	80	910	-15.5
Writing and Similar Paper	13858	18119	1195	1625	1207	1191	12955	-6.5
Thin (except Cigarette)	6321	8181	1364	2062	1317	1723	12015	90.1
Total Pkg & Other Paper	85912	58929	6086	5146	4882	4100	93566	8.9
Unbleached Kraft Paper	33888	14293	1532	786	1183	646	32532	-4.0
Other Pkg. & Indust. Paper	52023	42636	4555	4360	3689	3454	61034	17.3
Tissue	4121	2461	661	464	439	289	7040	70.8
Paperboard, Total	97583	25576	8045	2240	6357	1693	130633	33.9
Test or Containerboard	43472	11340	1898	486	1323	342	48169	10.8
Semi-Chemical Corrugating	31348	6156	3724	848	3392	773	52468	67.4
Other Paperboard	22762	8080	2324	906	1643	578	29997	31.8
Wet Machine Board	2116	1335	129	82	105	79	1684	-20.4
Construction Paper & Bd. *	473678	82393	25015	5329	12939	2901	396496	-16.3
Building Paper	435666	73238	21472	4278	11070	2264	355284	-18.5
Insulating Board	20208	4765	1927	589	1376	472	25398	25.7
Other Building Board	17804	[illegible]	1616	462	494	164	15813	-11.2
Convtd Paper&Paperbd Products	95442	[illegible]	8296	26677	7906	25285	95440	-0.0
Paper Products, Total	89328	238025	7630	25107	7092	23565	87414	-2.1
Paperboard Products, Total	6114	13287	667	1571	814	1720	8027	31.3
Notes								
Other: No Weight Avail. ($000)		82139		9504		8866	125935	53.3
Total Imports Incl. Other($000)		5218353		485740		427947	5583089	7.0

EXPORTS

	YEAR 1980		NOV. 1981		DEC. 1981		(1)	
Pulpwood, Roundwood (in cords of 128 cu. ft.)	185526	9389	22797	1356	15156	775	188598	1.7
Pulpwood Chips	4478234	377409	281387	22600	255787	21025	3848049	-14.1
Total All Exports	11832242	4839634	795359	375522	812405	382739	10858449	-9.8
Wood Pulp,Total	3805548	1652099	286642	121285	314972	141599	3677815	-3.4
Cotton Pulp and Other Pulp	148485	92607	12013	8338	8941	6115	131910	-11.2
Waste and Old Paper	2664272	322195	169825	20635	150417	17811	2212548	-17.0
Paper, Paperbd&Products, Total	5213936	2772733	346879	225253	338075	217214	4638175	-11.1
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	4581878	2052406	296807	159161	298320	152961	4033533	-12.0
Paper, Total	907447	737363	87740	71100	74636	61036	1008424	11.1
Newsprint	174869	86403	31167	18235	21549	11785	270450	54.7
Printing & Writing	340859	306098	29807	26875	24519	23001	383307	12.5
Uncoated Groundwood	100951	71718	8546	6645	74[illegible]	6035	119663	18.5
Clay Coated Paper	92351	75160	7610	6701	6303	5751	88587	-4.1
Uncoated Free Sheet	88313	94826	8098	8615	7236	8847	116750	32.2
Other Printing & Writing	59244	64386	4553	5015	3489	4368	58307	-1.6
Total Pkg. & Other Paper	330780	281341	24283	25000	26135	23600	302925	-8.4
Unbleached Kraft	142825	61346	11875	5540	7557	3416	110805	-22.4
Other Pkg. & Indust. Paper	187955	229985	12318	19460	18578	20184	192121	2.2
Tissue	60939	53521	2473	2890	2433	2651	51743	-15.1
Paperboard, Total	3608752	1283130	203094	85442	218418	89184	2944858	-18.4
Solid Wood Pulp	3359998	1182718	191278	78159	204830	83485	2771448	-17.5
Total Linerboard	2527245	790070	133587	44028	134887	44050	1973505	-21.9
Bleached Kraft Linerboard	233924	75860	15728	4490	6145	2255	151986	-35.0
Unbleached Kraft Linerbd	2293322	714110	117859	39538	128742	41786	1821508	-20.8
Other Unbleached Kraft	163825	80633	10714	4600	11618	5009	147892	-9.7
Other Bleached Kraft	606044	314751	45369	30009	47268	31480	584222	-3.6
Semi-Chemical Corrugating	62884	17264	1608	522	11058	2946	65829	4.7
Recycled Paperboard	248754	100412	11816	6282	11588	5698	173510	-30.2
Wet Machine Board	8017	5258	1026	576	693	483	10813	34.9
Construction Paper & Bd. *	57662	26655	4947	2043	4574	2248	69338	20.2
Building Paper	31436	13299	2746	1155	1539	899	22691	-27.8
Insulating Board E	26226	13356	2201	888	3035	1349	46647	77.9
Convtd Paper&Paperbd Products	632058	720328	50073	66092	41755	64253	602642	-4.7
Paper Products, Total	378581	523511	30872	48306	26547	48391	357953	-5.4
Paperboard Products, Total	253477	196817	19100	17786	15208	15863	244689	-3.5
Notes								
Other: No Weight Avail. ($000)		10300		860		853	10235	-0.6
Total Exports Incl. Other($000)		4849834		376382		383591	4918767	1.4
* Hard Pressed Board (not in total)								
Imports of Hard Pressed Board	172023	32469	14853	3268	13621	2616	188466	10.1
Exports of Hard Pressed Board	28900	10708	3954	1288	4966	1723	61046	111.2

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PAPER AND PAPERBOARD PRODUCTION

CENSUS DATA

(Thousands of Tons)

	YEAR 1979	 1980	AUG. 1981	SEPT 1981	OCT. 1981	NOV. 1981	Annual Rate Y-T-D 1981	% Change from same Period Last Year
PAPER					R	P		
Newsprint	3778	4660	456	439	487	455	5326	14.4
Uncoated Groundwood Papers	1800	1538	127	114	127	108	1459	-5.2
Coated Papers	4580	4751	415	425	428	402	4989	5.4
Uncoated Free Sheet (1)	7655	8008	648	659	667	626	7882	-1.8
Cotton Fiber Paper (1)	130	131	9	9	10	11	118	-9.5
Thin Papers	371	333	28	27	29	25	338	1.8
Bleached Bristols	957	941	88	82	80	85	984	3.8
Tissue Paper	4601	4474	385	364	407	363	4540	1.1
Unbleached Kraft Packaging & Industrial Conv. Papers(1)	3811	3718	303	302	301	292	3679	-1.9
Other Paper (1)	1797	1809	143	133	140	133	1624	0.7
TOTAL PAPER GRADES	29580	30164	2603	2557	2677	2498	30940	2.4
PAPERBOARD								
Solid Wood Pulp Furnish	23585	23802	2072	2059	1993	1929	24581	2.0
Unbleached Kraft Linerboard	13857	14249	1280	1255	1193	1189	14769	2.6
Other Unbl. Kraft Paperboard	1046	1036	80	82	79	80	1060	2.1
Bleached Kraft Paperboard	4065	4034	341	340	335	317	4095	0.8
Semi-Chemical Paperboard	4617	4583	370	382	386	343	4656	1.1
Recycled Paperboard	7583	7242	633	629	636	561	7472	3.3
TOTAL PAPERBOARD GRADES	31168	31143	2705	2688	2629	2491	32053	2.3
WET MACHINE BOARD	144	138	14	14	14	9	154	12.9
CONSTR. PAPER & INSUL. BOARD	3131	2420	166	141	137	137	2032	-16.9
TOTAL ALL GRADES [Excl. H.P.B.]*	64023	63865	5488	5399	5456	5134	65180	1.6

PRODUCER PRICE INDEXES

1967 = 100

	1980	1981	OCT.	NOV.	DEC.	JAN.		
Pulp, Paper and Products	249.2	273.5	279.1	280.2	280.7	283.9	283.9	8.6
Pulp, Paper & Products, except Waste Paper #	249.9	275.4	281.0	282.5	285.5	286.4	286.4	9.1
Total Wood Pulp	380.3	397.9	404.7	417.0	417.0	412.8	412.8	5.8
Total Paper	258.8	279.8	288.6	285.9	287.5	288.8	288.8	6.3
Total Paper, exc. Newsprint	249.3	271.1	279.1	279.4	279.1	281.3	281.3	7.4
Newsprint	279.7	307.6	320.0	314.4	316.8	316.8	316.8	4.9
Total Paperboard	234.6	258.1	262.6	261.6	259.3	259.7	259.7	3.5
Total Paper and Paperboard #	249.9	273.2	280.4	278.1	278.7	279.7	279.7	5.5
Converted Products	238.5	259.0	263.9	263.9	263.9	263.9	263.9	7.0
Waste Paper	208.7	175.7	165.1	144.5	143.4	135.2	135.2	-28.4
All Commodities	268.8	293.4	296.0	295.5	295.9	298.2	298.2	4.8
Industrial Commodities	274.8	304.1	308.8	309.1	310.1	311.7	311.7	7.0

(1) - Grade definitions revised by Census as of January 1979. New grades now consistent with API definitions. 1977 and 1978 Census data adjusted by API for comparability with 1979.

* See page 3 for Hard Pressed Board data. # Computed by API P-Preliminary R-Revised

SOURCES: Production - Bureau of Census, U.S. Department of Commerce
Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor

Continued from Page 2

The data on wood pulp production shown on Page 5 include only the chemical and mechanical grades used in the manufacture of paper and paperboard and do not include the defibrated and exploded wood pulps, used mainly in production of building board. Estimates of these grades of wood pulp have been presented in the yellow fact sheet that accompanies this report and were made on the basis of building board production. Without the monthly data on building board production, it will no longer be possible to estimate monthly data on production of defibrated and exploded wood pulp.

The table on Page 5 presents data on the consumption of fibrous raw materials used in the manufacture of paper and paperboard. We will continue to report this information, although some of the groundwood pulp included in this total is used by the building paper and board sector, and the data on other fibrous raw materials will have to be estimated on a trend basis extrapolated from the latest annual totals.

Wood Pulp

The market wood pulp data presented on Page 5 are taken from API reports. Of major interest are the data on chemical paper grade market pulp. The Pulp, Raw Materials and Technology Group of API reported that total chemical grade market pulp production in 1981 amounted to 4.85 million short tons, 1.3% below the 1980 record high. Production in January 1982, however, at 337,000 short tons, was about 15% below its year-ago level and about 16.5% below the 1981 average monthly rate. Inventories of market pulp held by producers have recently been in a sharp uptrend; the level as of the end of January 1982 was 56% above its year-ago rate. Inventories of purchased pulp held by consumers, probably rose only modestly; their December 1981 total was only 7% above that of December 1980.

Sales and Earnings

Reported sales of 30 paper and allied products companies for the fourth quarter of 1981, accounting for over 65% of the industry total, were 5% below their third quarter level, and 0.8% below the year-earlier level, reflecting the decline in output evident in that period. Even with the decline in sales, earnings rose from the third to the fourth quarter by 9%, although the fourth quarter 1981 total

Continued on Page 12

Continued from Page 11

was down 11% from its year-ago level. The earnings totals reported here represent earnings after taxes on continuing operations only and include earnings from operations other than pulp, paper and paperboard. In our definition operating earnings do not include the effects of gains or losses from such sources as sale of properties.

For 1981 as a whole, sales by these companies were up 7%, profits after taxes as defined here down 3.5%. The margin on sales in 1981 averaged 5.0% compared to 5.5% in 1980. The table below summarizes the data for 1980 and 1981.

Paper and Allied Products Companies
(million dollars)

30 Companies

	Sales			Earnings after Taxes		
	1981	1980	% Change	1981	1980	% Change
First Quarter	9,885	9,186	+ 7.6	508	531	- 4.3
Second Quarter	10,466	9,251	+13.1	583	537	+ 8.6
Third Quarter	10,131	9,380	+ 8.0	435	469	- 7.3
Fourth Quarter	9,649	9,724	- 0.8	473	534	-11.4
Year	40,132	37,542	+ 6.9	1,999	2,071	- 3.5

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

FEBRUARY 26, 1982

PRODUCTION (000 TONS)

	Jan. 1982	Dec. 1981	Jan. 1981	Jan. - Jan. 1982	1981	% Change 82/81
PAPER GRADES	P	R				
Newsprint	441	395	417	441	417	5.7
Uncoated Groundwood (s)	115	113	128	115	128	-10.5
Coated Paper (s)	385	389	425	385	425	-9.4
Uncoated Free Sheet Paper (s)	655	575	660	655	660	-0.7
Thin Paper (c)	25	24	28	25	28	-10.1
Cotton Fiber Paper (s)	10	9	10	10	10	-3.0
Bleached Bristols (s)	80	75	85	80	85	-5.5
Tissue Paper	375	351	377	375	377	-0.5
Unbleached Kraft Packaging & Indl. Converting (s)	300	269	337	300	337	-11.0
Other Paper (c)	140	115	138	140	138	1.6
TOTAL PAPER	2526	2315	2605	2526	2605	-3.0
PAPERBOARD GRADES						
Kraft Linerboard, Unbleached	1077	908	1237	1077	1237	-12.9
Other Kraft Paperboard	98	67	97	98	97	1.5
Semichemical Paperboard	375	320	408	375	408	-8.0
Bleached Paperboard	305	269	342	305	342	-11.0
Recycled Paperboard	545	472	625	545	625	-12.8
TOTAL PAPERBOARD	2400	2035	2709	2400	2709	-11.4
CONSTRUCTION & WET MACH GRADES(c)	139	134	188	139	188	-26.0
TOTAL PAPER AND PAPERBOARD	5066	4485	5502	5066	5502	-7.9
HARD PRESSED BD.[not in total](c)	107	100	160	107	160	-33.1

WOOD PULP (ALL GRADES)	Dec. 1981	Nov. 1981	Dec. 1980	Jan - Dec. 1981	1980	% Change 81/80
Dissolving & Special Alpha	85	129	126	1365	1508	-9.5
Bleached Sulphite	101	111	124	1403	1460	-3.9
Unbleached Sulphite	30	36	31	399	385	3.8
Bleached & Semi-Bl. Sulph.	1410	1685	1451	20061	19001	5.6
Unbleached Sulphate	1266	1566	1423	19513	19591	-0.4
Semichemical	280	300	310	3924	4026	-2.5
Groundwood and Thermo-Mechanical	420	441	409	5320	4767	11.6
TOTAL PULP DIVISION DATA	3590	4267	3872	51985	50737	2.5
Defib. Exploded & Scrngs E	134	146	219	2350	2625	-10.4
TOTAL WOOD PULP PRODUCTION	3724	4413	4091	54335	53361	1.8

Note: Paperboard cumulative totals include revisions not available monthly.

(s) - Shipments
R - Revised
E - Estimate
P - Preliminary
(c) - Census Data - Production, last 2 months estimated.

FEBRUARY 28, 1982

	Full Year		INDUSTRY DATA 1981 R	 1981 R	 1982 P	Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
PAPER AND PAPERBOARD -- Tons (000)	1980	1981	November	December	January	1982	
Total Production (API).......| |...	63701	64496	5181	4485	5066	60787	-7.9
Total Seasonally Adjusted....| excluding |...			5235	4990	5132	61582	-7.5
Imports (including Products).|hard pressed|..E	8778	8341	732	644	N.A.	N.A.	N.A.
Exports (including Products).| board |..E	5214	4636	347	338	N.A.	N.A.	N.A.
Apparent Consumption.........| |...	67265 a	68200 b	5621	5296	5400E	64800EC	-7.7
Paper Production % Tonnage Capacity...........	92.4g	92.2 g	89.0	77.5	84.9	90.2gh	-
Paperboard Production % Tonnage Capacity......	91.8g	91.5 g	85.4	67.4	80.0	84.1g	-
			October	November	December		
MARKET WOOD PULP PRODUCTION - Tons (000)........	6488	6190	560	541	419	N.A.	N.A.
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)....	50737	51985	4485	4267	3590	N.A.	N.A.
WOOD PULP IMPORTS - TONS (000).................	4051	4077	406	318	269	N.A.	N.A.
WOOD PULP EXPORTS - TONS (000).................	3806	3676	275	267	315	N.A.	N.A.
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS			October	November	December		
Wood Pulp..(k)............................	50364	51652	4474	4198	3571	N.A.	N.A.
Waste Paper....(d)........................	14922	15409	1336	1225	1108	N.A.	N.A.
Other (Census)............................E	607	625	47	39	43	N.A.	N.A.
Total................	65893	67686	5857	5462	4722	N.A.	N.A.
..WOOD PULP - NON PAPER........................E	825	781	65	61	58	N.A.	N.A.
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	80522	79604	7058	6459	5658	N.A.	N.A.
EMPLOYMENT (000)			November	December	January		
Paper and Allied Products..........Total......	694.0	692.3	686.4	682.1	675.3	675.3	-1.8
Pulp, Paper and Board Mills........Total.....E	269.0	268.5	265.0	264.6	262.0	262.0	-2.1
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products.....................	7.84	8.60	8.89	8.96	9.06	9.06	9.6
Pulp, Paper Mills.........................E	9.15	10.05	10.48	10.43	10.55	10.55	10.0
Paperboard Mills..........................E	9.28	10.23	10.49	10.64	10.65	10.65	8.7
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1981 Q3	1981 Q4	1982 Q1		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	6.80	6.72	7.01	6.58	6.50	6.50Q1	-6.2
INDEX OF OUTPUT PER MAN-HOUR (1977=100).........			November	December	January		
|IN PULP, PAPER |...Production Worke...........	107.8	108.0	108.3	104.2	110.1	110.1	-1.3
|AND BOARD MILLS|...All Employees..............	106.3	106.9	107.0	103.1	108.1	108.1	-2.0
PAPER AND ALLIED PRODUCTS (Million $)			November	December	January		
Industry Shipments (Dept. of Commerce)*.......	71736	77803	6533	6572	N.A.	N.A.	N.A.
Pulp, Paper and Paperboard*..................	31952	34171	2906	2809	N.A.	N.A.	N.A.
Inventories (End of Period) - Total Industry*.	7798	8801	8822	8801	N.A.	N.A.	N.A.
Pulp, Paper and Paperboard*.................	2794	3307	3291	3307	N.A.	N.A.	N.A.
			1981 Q3	1981 Q4	1982 Q1		
Sales (Corporations Only, FTC)................	54737	61229y	15271	N.A.	N.A.	N.A.	N.A.
Earnings (Corporations Only, FTC).............	2781	2985y	625	N.A.	N.A.	N.A.	N.A.
Depreciation (Corporations Only, FTC)..........	1990	2199y	565	N.A.	N.A.	N.A.	N.A.
Net Worth (Corporations Only, FTC)............	23873	25238(Q3)	25238	N.A.	N.A.	N.A.	N.A.
PRICE INDEXES (Bureau of Labor Stats)1967=100			November	December	January		
Total Pulp, Paper and Allied Products.........	249.2	273.5	280.2	280.7	283.9	283.9	8.6
Wood Pulp.....................................	380.3	397.9	417.0	417.0	412.8	412.8	5.8
Waste Paper...................................	208.7	175.7	144.5	142.4	135.2	135.2	-29.4
Paper...	256.8	279.8	285.9	287.5	288.6	288.6	6.3
Paperboard....................................	234.6	258.1	261.6	25[illegible].3	259.7	259.7	3.5
PAPER DEMAND (INDEXED: 1967=100)			November	December	January		
Total Paper Production *......................	143.9	148.3	148.0	141.4	145.9	145.9	-2.7
Paper New Supply *............................	136.1	137.6	139.3	131.8	135.1	135.1	-2.7
Total End - Use Index *.....................	146.3	150.4	150.2	150.4	148.4	148.4	-1.1
Production of Nondurable Goods *...(19%)..	161.2	164.7	160.6	157.6	153.2	153.2	-7.5
Disposable Income (Constant $) *...(23%)..	151.0	154.3	155.6	154.9	156.2	156.2	2.2
Total Printing and Publishing *...(58%)..	139.5	144.2	144.7	146.3	143.7	143.7	-0.1
Trend Factor	----------	----------	----------Not Available	----------	----------	----------	----------
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *.................	135.4	137.5	131.7	124.8	128.1	128.1	-10.9
Production for Domestic Use	128.3	133.7	128.0	122.7	125.4	125.4	-11.4
Total End - Use Index *.....................	146.1	149.3	144.8	141.9	137.4	137.4	-8.0
Production of Consumer Goods *...(60.49%)	145.4	147.8	144.2	142.3	138.1	138.1	-6.0
Production of Equipment *...(6.62%)	145.2	151.6	151.2	150.5	148.0	148.0	-0.7
Production of Materials *...(32.89%)	147.6	151.5	144.6	139.3	134.1	134.1	-12.8
Trend Factor	----------	----------	----------Not Available	----------	----------	----------	----------
NEWSPRINT MARKETS			November	December	January		
Consumption by Publishers - Tons (000)........	11121	11206	1008	984	892	10702	3.6
Newspaper Pub. and Printing Empl. Total(000)..	422.8	431.9	438.4	440.2	N.A.	N.A.	N.A.
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)..........	118372	121514	14045	10046	N.A.	N.A.	N.A.
WHOLESALERS SALES AND INVENTORIES (Million $)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	21643	24826	2042	2051	N.A.	N.A.	N.A.
Inventories (End of Period)	1849	2072	2072	2072	N.A.	N.A.	N.A.
Paper Only............................Sales	15879	17897	1442	1432	N.A.	N.A.	N.A.
Inventories (End of Period)	1248	1371	1362	1371	N.A.	N.A.	N.A.
RETAIL TRADE (Million $)			November	December	January		
Total Retail Sales *..........................	953984	1044203	87222	87060	86119	1033428	0.8
Nondurable Goods Stores Sales *..............	656231	715936	60738	60424	60348	724176	3.4
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	147.0	150.9	146.4	143.4	139.1	139.1	-8.1
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	268.8	293.4	295.5	295.9	298.2	298.2	4.8
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	246.8	272.3	280.7	281.5	282.5	282.5	8.4
			November	December	January		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	313.4	333.1	328.9	333.1	N.A.	N.A.	N.A.
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$).			1981 Q3	1981 Q4	1982 Q1		
G.N.P. or Expenditure - Current $.............	2626.1	2924.8	2965.0	2995.3	N.A.	N.A.	N.A.
G.N.P. OR Expenditure - 1972 $................	1480.7	1510.0	1515.8	1497.6	N.A.	N.A.	N.A.

lb/capita	Popul.(mil)
.a - 591	227.7
.b - 594	229.7
.c - 581	230.9

.d - 1979 - 13012; 1980 - 12583
. Jan-Nov.'81 ARY-T-D - 13532
. (000 tons) is pub. by Census
.E - Last month estimated by API

F - Wood Pulp Production excludes estimates for def. expl. & sorngs. Prod. was: 1979 - 3,080R; 1980 - 2625; 1981 2350 (000 tns)
g - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
k - Excludes consumption of defib. & expl. pulp for hard p. bd.: '79 - 1,536; '80 - 1,376 (000 tons) 1981 - 1211

N.A. - Not Available
P - Preliminary
q - Quarter
R - Revised
RS - Revised Series
y - Full year estimated from first three quarters.
* - Seasonally adjusted

/ A2500-2 4/5/82

Paper
Paperboard
& Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 60 - No. 3 MARCH, 1982

Production Turns Upward

The decline in total business activity in the fourth quarter of 1981 was reflected in the demand for paper and paperboard. Production of paper, paperboard and construction paper and board moved from 65.7 million tons per year in the third quarter to 61.9 million tons per year, seasonally adjusted, in the fourth. This may be the low; preliminary figures indicate a modest upturn is underway.

The January 1982 trend level, calculated from the two-month moving average to correct for random fluctuations in the data, was at a seasonally adjusted rate of 60.9 million tons per year. The trend rate in February moved up to 62.4 million tons per year. This marked a 2.5% gain from the December-January low and brought the trend rate back to the November 1981 level.

Paperboard production which is closely aligned with the production of goods for packaging, was more strongly affected by the business downturn than the paper sector. At its low point in December-January, the trend of paperboard production was 28.9 million tons per year, 4.0% below its November trend level. The subsequent recovery in production was correspondingly steeper, with the February 1982 trend position rising above the November 1981 level. Much of this fluctuation can be traced to changes in inventories; for example, January production of containerboard was strongly affected by the sharp reduction of inventories of containerboard held at box plants. The February trend position of paperboard production was 30.2 million tons per year, which favorably compares with the 31.3 million tons per year for all of 1981. However, the January-February 1982 production total was 7.5% below the comparable year-ago level with the major grades showing declines ranging from about 7% for solid bleached paperboard, to 8.5% for recycled paperboard.

Paper production made its low in the December 1981-January 1982 period at 30.2 million tons per year. The January-February rate strengthened slightly, moving to 30.4 million tons per year. Newsprint production held close to its recent high level, but production of bleached bristols made the strongest showing, with the January-February 1982 total some 10% ahead of its year-earlier level. Within this category, the largest increases were recorded in the index and printing uncoated bristols and in coated bristols.

Continued on Page 2

Continued from Page 1

Production of uncoated groundwood papers, by way of contrast, was down 11.4% in this period, largely reflecting reductions in shipments to "other periodical" publishers and commercial printers.

Technical Note: The Bureau of the Census has discontinued publication of its monthly report, Current Industrial Reports, Pulp, Paper and Paperboard, wherein it published monthly data on paper and paperboard production, including the wet machine and building paper and board grades, along with data on waste paper receipts and inventories, consujption of market pulp at paper and paperboard mills and consumption of wood pulp at non-paper mills.

We will continue to estimate the 1982 monthly data on production of wet machine board, building paper and building board until we have completed publishing all the 1981 monthly data on these grades that Census will make available. After that, we shall omit all data on these grades in the table on Page 3 and delete the upper table on Page 10, which reports the Census monthly data.

Data will only be available from the Bureau of Census in the annual issues of Pulp, Paper and Board, generally published about three calendar quarter after the end of the year. The American Paper Institute will continue to publish the annual Census data on these grades in its annual publication, Statistics of Paper, Paperboard and Wood Pulp, although there may be some time lag if the Census data are not available by the usual publication date of the API report.

API had previously relied on Census for data on production of thin papers and packaging and industrial converting papers plus special industrial papers. We will be able to report monthly production data on these grades based on member reports.

Imports and Exports

The Foreign Trade Division of the Bureau of Census will continue to report monthly data on imports and exports. These data are collected from the documents accompanying import and export shipments. Census reported January 1982 imports of paper, paperboard and products at 675,000 tons, only 1.1% below the January 1981 level.

Primary paper imports, which accounted for 96% of the total, were 1.2% ahead of their year-earlier level and slightly above the average monthly level for all of 1981. January 1982 newsprint imports matched their year-ago total. Imports of paperboard were down sharply, but even in 1981, the total was only 131,000 tons for the full year.

Continued on Page 11

PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS

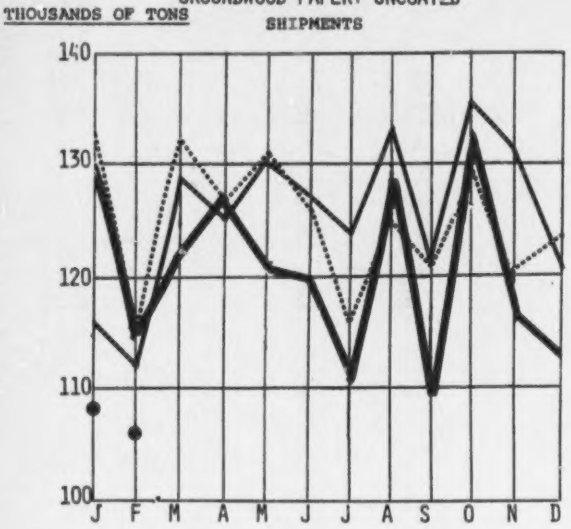
(Thousands of Tons)

	YEAR 1980	1981	NOV. 1981	DEC. 1981	JAN. 1982	FEB. 1982	Annual Rate Y-T-D 1982	% Change From same Period Last Year
PAPER					R	P		
Newsprint - Production	4672	5239	454	395	458	416	5244	7.8
- Shipments	4667	5220	448	404	448	415	5176	7.1
Printing & Writing	15605	15803	1268	1184	1280	1224	15074	-3.3
Groundwood Paper - Shipments	1498	1441	116	113	109	106	1288	-11.4
- New Orders	1475	1426	95	122	111	111	1329	-12.8
- Unfilled Orders	110	112	90	112	88	99	99	-20.2
Coated Paper - Shipments	4673	4951	389	389	404	374	4667	-4.7
- New Orders	4753	4866	396	383	396	384	4680	1.1
- Unfilled Orders	391	308	318	308	342	359	359	7.4
Unctd Free Sheet - Shipments	7983	7882	630	575	647	61[illegible]	7541	-2.3
- New Orders	7694	7706	570	592	628	609	7408	-4.1
- Unfilled Orders	546	402	367	402	339	347	347	-38.7
Thin Paper - Production	343	334	25	24	25	25	298	-10.1
Cotton Fiber Paper - Shipments	126	119	10	9	10	10	117	-5.8
Bleached Bristols - Production	882	1077	88	75	94	100	1163	10.2
Tissue Paper - Production	4375	4485	373	350	354	335	4133	-5.6
Total Packaging & Other Paper	5539	5485	460	384	440	425	5191	-8.1
Unbl. Kraft Paper - Shipments	3930	3891	326	269	309	300	3655	-7.7
Other Paper - Production * #	1809	1804	133	115	131	125	1536	-1.9
TOTAL PAPER-Production-Unadj.	30191	31021	2554	2314	2540	2401	29642	-2.3
-Production-S.A.			2583	2467	2560	2506	30396	-2.2
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	23881	24268	1939	1563	1854	1897	22506	-7.2
Unbl. Kraft Linerboard (1)	14232	14558	1175	908	1074	1154	13367	-7.6
Production for Export	2380	1824	152	115	132	165	1782	4.1
Other Unbl. Kraft Paperboard	1063	1067	72	87	97	85	1091	1.1
Semichemical Paperboard	4723	4717	376	320	376	357	4398	-8.0
Production for Export	322	140	9	8	11	15	160	43.8
Solid Bleached Paperboard	3862	3826	315	269	307	301	3649	-6.9
Production for Export	545	554	45	45	43	41	503	5.4
Recycled Paperboard	7071	7070	543	472	554	551	6630	-6.5
Production for Export	83	21	1	2	1	1	15	-62.8
TOTAL PAPERBOARD-Prod.-Unadj.	30952	31338	2482	2035	2408	2448	29135	-7.5
- Containerboard Prod.(Dom. Use)	18070	19138	1541	1227	1441	1469	17462	-9.3
- Boxboard Prod.(Dom. Use) (2)	5477	5560	431	383	444	435	5275	-8.4
- All Other P'bd Prod.(D.U.) (2)	4075	4098	303	276	335	321	3840	-4.9
- Total Paperbd Prod. for Export	3329	2540	207	170	188	222	2460	5.2
TOTAL PAPERBOARD PROD. - S.A.			2504	2372	2445	2585	30177	-7.1
WET MACHINE BOARD *	138	151	9	9	10	9	115	-24.7
BUILDING PAPERS *	1369	1159	82	75	77	75	914	-27.3
INSULATING BOARD *	1051	829	55	50	52	50	612	-28.0
TOTAL ALL GRADES - Unadjusted	63701	64497	5181	4483	5087	4983	60418	-5.8
- Production - S.A.			5236	4889	5153	5239	62356	-5.5
HARD PRESSED BD. [not in total]*	1970	1863	110	100	107	110	1302	-32.7

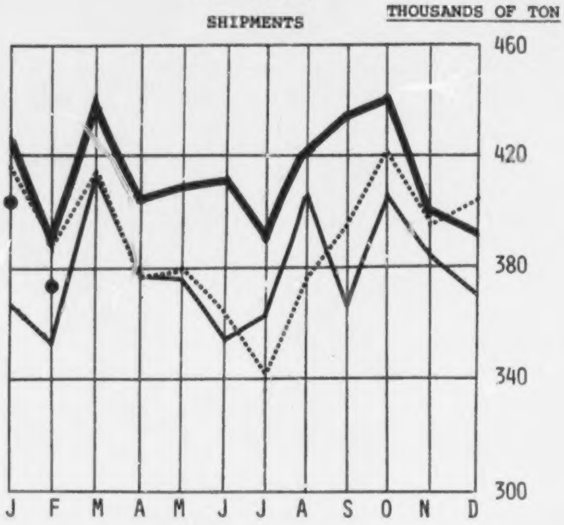
* Census Data - Production. Last three months estimated.
# 1981 data estim. by API to conform to revised data for prior years.
(1) Includes all exports of kraft paperboard.
(2) Data for unbl. kraft folding boxboard incl. in All Other P'bd.

S.A. Seasonally Adjusted
P Preliminary
R Revised

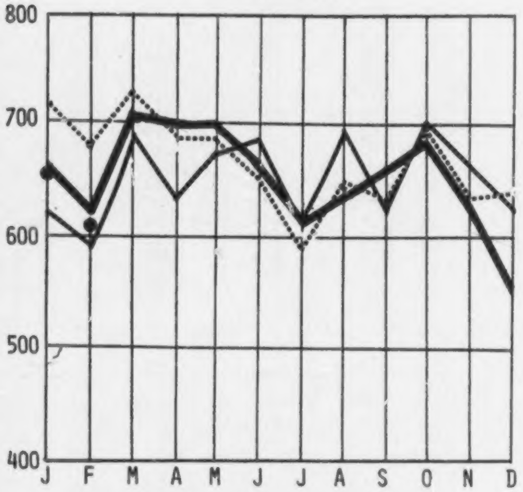
GROUNDWOOD PAPER. UNCOATED
SHIPMENTS



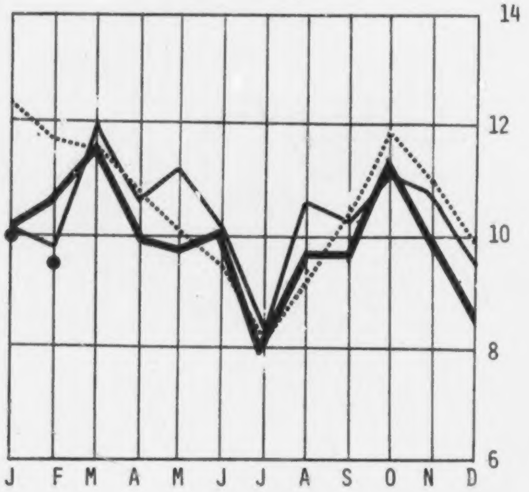
COATED PAPER
SHIPMENTS



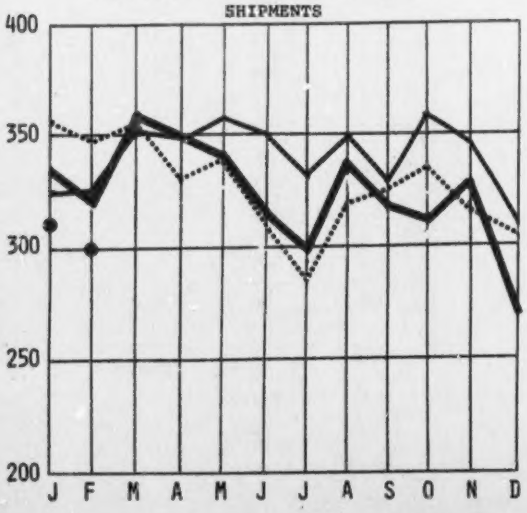
UNCOATED FREE SHEET PAPERS
SHIPMENTS



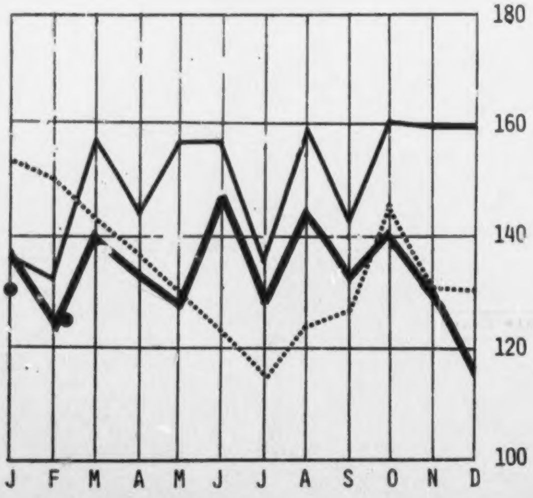
COTTON FIBER PAPER
SHIPMENTS



UNBLEACHED KRAFT PACKAGING
AND INDUSTRIAL CONVERTING PAPER
SHIPMENTS



OTHER PAPER
PRODUCTION



1979 —— 1980 ········ 1981 ▬▬ ● 1982

WOOD PULP STATISTICS
(Thousands of Tons)

	YEAR 1980	YEAR 1981	OCT. 1981	NOV. 1981	DEC. 1981	JAN. 1982	Annual Rate Y-T-D 1982	% Change From same Period Last Year
TOTAL WOOD PULP (1)					R	P		
Total Wood Pulp - Production	50737	51985	4485	4267	3590	3991	47898	-8.8
- Imports	4051	4087	406	318	269	270	3243	-28.8
- Exports	3806	3678	275	267	315	221	2655	-24.1
- New Supply	50982	52394	4616	4318	3544	4040	48486	-9.5
Dissolving Pulp - Production	1508	1365	113	129	85	99	1190	-14.5
- Imports	263	249	32	13	15	30	358	9.0
- Exports	769	784	62	53	85	50	594	-26.6
- New Supply	1002	830	83	89	14	79	954	4.7
Paper Grades Chemical Pulp - Production	40436	41376	3597	3398	2806	3154	37850	-9.1
- Imports	3615	3655	349	288	250	228	2738	-29.3
- Exports	2956	2870	211	213	226	168	2018	-24.4
- New Supply	41095	42161	3735	3472	2830	3214	38570	-10.0
Groundwood and Thermo-Mech. - Production	4767	5320	450	441	420	430	5159	-2.9
- Imports	173	183	25	18	4	12	147	-58.4
- Exports	81	24	2	0	4	3	42	113.3
- New Supply	4859	5479	473	459	421	439	5265	-6.8
Semi-Chemical - Production	4026	3824	325	300	280	308	3697	-11.0
- Imports	0	0						
- Exports	0	0	------	Included	with	Groundwood	Pulp ------	
- New Supply	4026	3824	325	300	280	308	3697	-11.0
MARKET WOOD PULP								
Total Market Wood Pulp - Production	6488	6180	560	541	419	425	5096	-17.7
- Imports	2847	2824	263	214	233	222	2666	-14.5
- Exports	3513	3352	214	243	339	186	2234	-15.9
- New Supply	5821	5731	609	512	313	461	5528	-17.0
Dissolving Pulp - Production	1506	1337	112	129	85	85	1018	-26.7
- Imports	235	241	26	13	15	25	286	-18.2
- Exports	876	787	43	60	91	48	570	6.0
- New Supply	865	791	95	82	9	62	744	-38.7
Paper Grades Chemical Pulp - Production	4913	4852	448	412	334	340	4080	-15.1
- Imports	2687	2634	234	198	215	185	2335	-11.1
- Exports	2588	2555	171	183	247	139	1664	-20.2
- New Supply	5012	4931	511	427	302	386	4750	-11.1
Groundwood Pulp and All Other - Production	68	1	0	0	0	0	1	0.0
- Imports	26	49	3	2	3	3	35	-73.3
- Exports	50	10	0	0	0	0	0	0.0
- New Supply	44	40	2	3	3	3	36	-63.2

(1) Prodctn excludes defibrated, exploded & screenings-(000 tons): 1979 - 3,080; 1980 - 2,625; 1981 - 2,350

SOURCES: Total Wood Pulp Imports & Exports - Department of Commerce. Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp & Raw Materials Group, API.

FIBROUS RAW MATERIALS
(Thousands of tons)

	YEAR 1980	YEAR 1981	OCT. 1981	NOV. 1981	DEC. 1981	JAN. 1982	Annual Rate Y-T-D 1982	% Change From same Period Last Year
CONSUMPTION AT PAPER & BD. MILLS					R	P		
Total	65893	67686	5857	5462	4722	5172	62062	-10.4
Total Wood Pulp (2) A	50384	51652	4474	4188	3571	3907	46882	-11.0
Market Wood Pulp C, E	4789	5100	434	397	360	385	4620	-5.8
Waste Paper (3) A	14922	15409	1336	1225	1108	1218	14616	-8.1
Rags, Straw & Other C, E	607	625	47	49	43	47	564	-16.1
INVENTORIES								
Wood Pulp at Pulp Mills A	117	188	195	214	188	193	193	41.8
Market Pulp at Pulp Mills A	239	389	407	466	389	413	413	45.1
Mkt Pulp at Ppr.& Bd. Mills CE	449	480	462	443	480	470	470	8.5
Waste Ppr.at Ppr.&Bd. Mills (4)	1110	1338	1223	1265	1338	1249	1249	12.0
Rags, Straw and Other at Paper and Board Mills C, E	71	63	45	65	63	65	65	25.0
Mkt Wood Pulp Days of Supply A	45	60	58	63	60	65	55	28.3
Wood Pulp Consumption at at Non-Paper Mills C, E	825	781	65	61	59	60	720	-12.4

A - Pulp & Raw Materials Group, API; C - Bureau of the Census; E - Most Recent 2 Months Estimated by API

P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

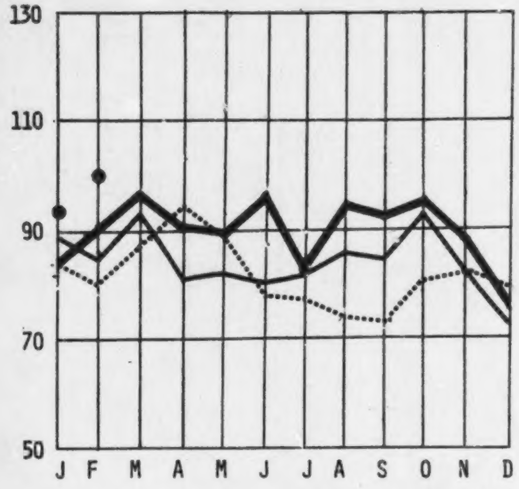
(2) Excl. cons. of defib. & expl. pulp for hard pressed bd.(000 tons): 1979 - 1535; 1980 - 1376; 1981 - 1211

(3) Census Waste Paper Consumption, (000 tons): 1979 - 12,915; 1980 - 12,705; Jan-Nov'81 ARY-T-D - 13,532

(4) Census data prior to 1979; more recent data are from the Paper Stock Conservation Committee, A.P.I.

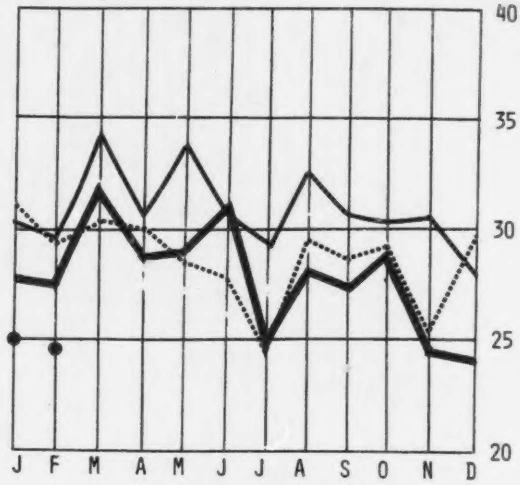
THOUSANDS OF TONS

BLEACHED BRISTOLS
PRODUCTION

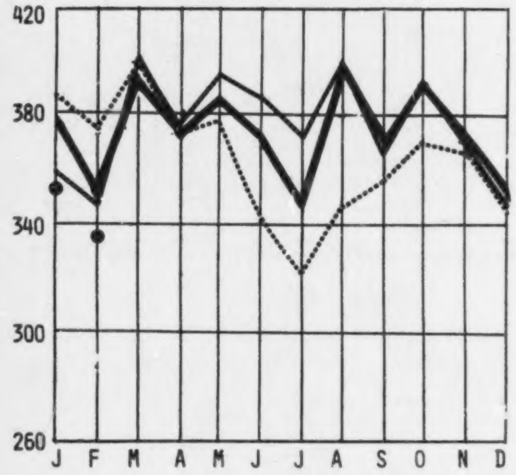


THIN PAPERS
PRODUCTION

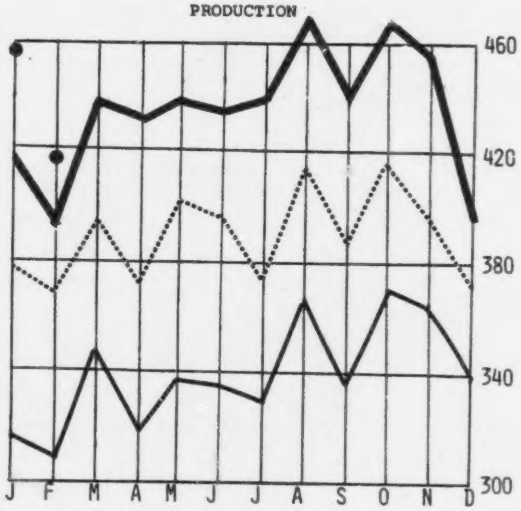
THOUSANDS OF TONS



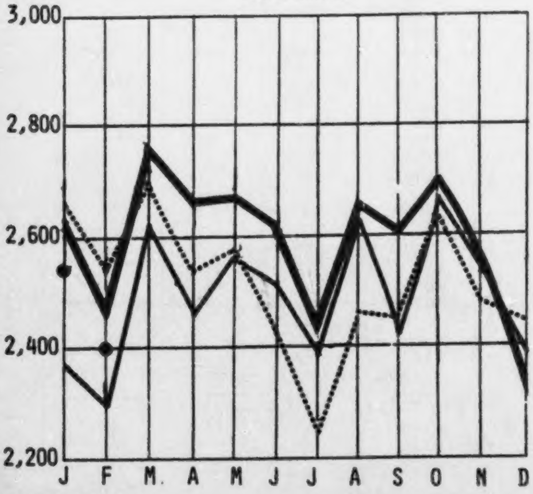
TISSUE PAPER
PRODUCTION



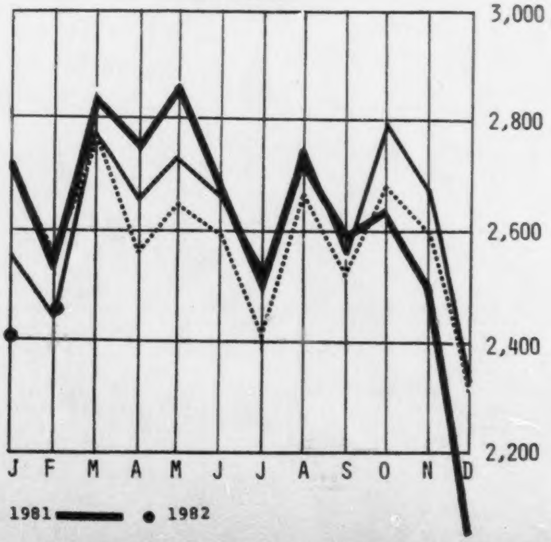
NEWSPRINT
PRODUCTION



TOTAL PAPER
PRODUCTION



TOTAL PAPERBOARD
PRODUCTION



1979 —— 1980 ········ 1981 ▬▬ ● 1982

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic foot) Cords)

	YEAR 1980	YEAR 1981	OCT. 1981	NOV. 1981	DEC. 1981	JAN. 1982	Annual Rate Y-T-D 1982	% Change From same Period Last Year
PULPWOOD								
Total U.S. - Total Receipts	81805	78547	7208	8258	5872	5908	70872	-13.8
- Total Consumpt.	80522	78804	7058	6458	5858	8386	78752	-4.5
- Residues *	29402	30580	2680	2316	2247	2169	26028	-15.5
- Inventories	6285	8045	5817	5800	8045	5571	5571	-12.1
So. Atlantic - Total Receipts	28742	24881	2151	1864	1845	1767	21204	-18.0
- Total Consumpt	26881	24815	2078	1870	1774	2018	24192	-5.8
- Residues *	8776	8770	758	688	646	603	7236	-21.2
- Inventories	1158	1051	1000	862	1051	809	809	-28.0
Northeast - Total Receipts	7710	7803	787	585	940	638	7656	-4.5
- Total Consumpt	7487	7712	724	615	561	622	7464	-3.8
- Residues *	1648	1362	107	107	101	98	1188	-12.4
- Inventories	724	635	704	555	635	645	645	-13.2
South Central - Total Receipts	27508	27744	2553	2271	2104	1943	23316	-17.4
- Total Consumpt	27074	27687	2487	2278	1834	2122	25464	-8.0
- Residues *	8001	8823	781	641	611	587	7044	-20.8
- Inventories	1830	1825	1546	1581	1825	1638	1638	-11.5
North Central - Total Receipts	5514	5850	485	445	505	486	5832	-15.2
- Total Consumpt	5282	5708	501	488	445	447	5364	-5.7
- Residues *	1361	1438	115	128	114	98	1176	-6.7
- Inventories	1210	1108	1118	1058	1106	1134	1134	-12.8
West - Total Receipts	14330	13868	1250	983	878	1072	12864	-5.5
- Total Consumpt	13878	13882	1270	1110	844	1189	14268	0.6
- Residues *	8615	10096	811	752	775	782	9384	-7.2
- Inventories	1363	1428	1548	1444	1428	1344	1344	3.0

* - Consumption of Residues in Cord Equivalents.
SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

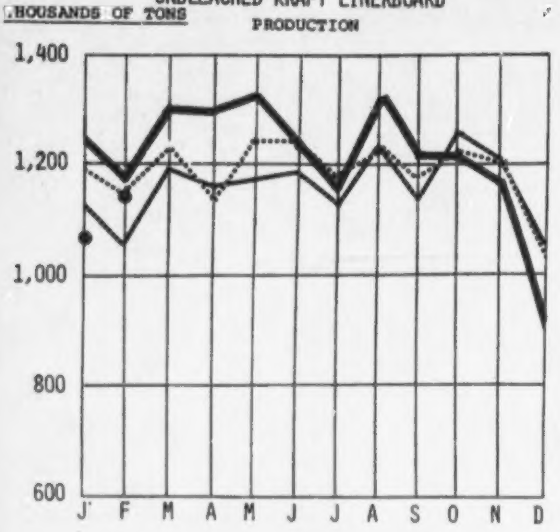
	YEAR 1981 Tons	YEAR 1981 $000	DEC. 1981 Tons	DEC. 1981 $000	JAN. 1982 Tons	JAN. 1982 $000	Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic Feet)	168317	8878	9515	478	8121	405	108452	-55.5
Pulpwood Chips	1684950	51394	123539	4088	142588	3938	1711056	4.4
Wood Pulp, Total	3800713	1648868	233283	107192	250483	112176	3005556	-29.1
Waste Fibrous Materials, Total	111966	18844	8424	1471	6778	1053	81330	-25.3
Paper,Paperboard&Products,Total	8037677	3282788	626012	268833	648845	282042	7788335	-2.1
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd. *	8001585	3218080	623857	263663	646446	276348	7757352	-2.4
Paper, Total	7508823	3112817	607102	259523	630054	272106	7560643	0.4
Newsprint	6835975	2807548	556841	233846	581258	245718	6975086	-0.2
Printing,Writing & Rel.Pap.	482408	242844	45488	22027	44281	23529	531387	22.8
Pack. & Ind. Conv. Paper	82414	54433	4225	3183	4125	2549	48504	-51.9
Special Industrial Paper	2279	3639	131	223	86	139	1028	-18.5
Tissue Paper	6748	4452	417	245	304	173	3648	2135.3
Paperboard, Total	128597	33510	6304	1840	5558	1481	66870	-42.7
Wet Machine Board	1064	573	76	45	85	48	1018	219.8
Construction Paper and Bd. *	381101	72080	10174	2455	10752	2711	129022	-57.0
Convtd Paper&Paperbd Products	36292	63708	3256	5170	3499	5694	41983	10[illegible].1

EXPORTS TO CANADA

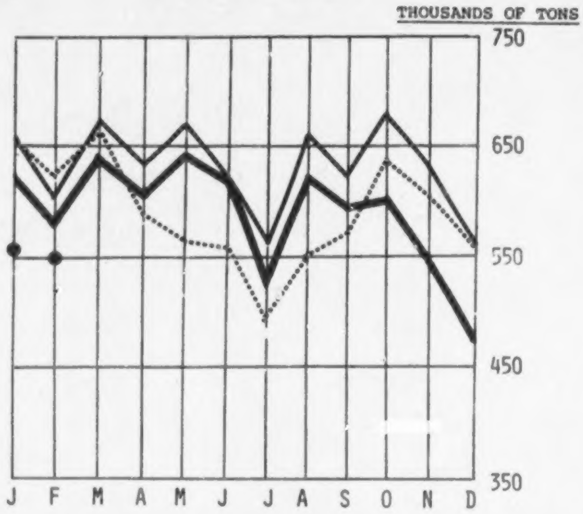
	YEAR 1981 Tons	YEAR 1981 $000	DEC. 1981 Tons	DEC. 1981 $000	JAN. 1982 Tons	JAN. 1982 $000	Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic Feet)	185312	10444	14867	761	6370	327	76440	-54.1
Pulpwood Chips	38471	1525	3125	178	889	41	10668	-59.5
Wood Pulp, Total	118921	58740	6188	3342	8957	4823	119484	-23.4
Cotton Pulp & Other Pulp	5800	3880	174	125	626	386	7512	-13.7
Waste Paper	356523	41185	18803	2266	13328	1627	159936	-53.7
Paper,Paperboard&Products,Total	695892	504904	43408	32731	40468	32348	485616	-33.7
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board *	527486	365270	32869	22587	29882	22807	355936	-39.8
Paper, Total	278136	247806	18843	15247	15716	16298	188587	-41.2
Newsprint	8435	6155	280	253	215	195	2578	-36.2
Printing,Writing & Rel.Pap.	162823	134132	7533	7358	8504	7879	102046	-32.1
Pack. & Ind. Conv. Paper	24365	17448	1279	815	861	712	10332	-58.0
Special Industrial Paper	75854	84471	7889	6636	5928	7307	71141	-47.8
Tissue	6858	5600	181	185	208	205	2501	-59.8
Paperboard, Total	209888	102235	13898	6558	12280	8088	147476	-37.9
Wet Machine Board	7201	4215	516	304	292	182	3380	-54.8
Construction Pap. & Bd. E *	32464	11014	1441	488	1374	341	16484	-37.0
Convtd Paper&Paperbd Products	168505	139834	10540	10134	10807	9441	129878	-7.6
* - Hard Pressed Board (not in total)								
Imports of Hard Pressed Bd.	23849	6028	1324	338	829	207	8948	-45.1
Exports of Hard Pressed Bd.	37484	10315	2708	769	1075	345	12800	-32.6

SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

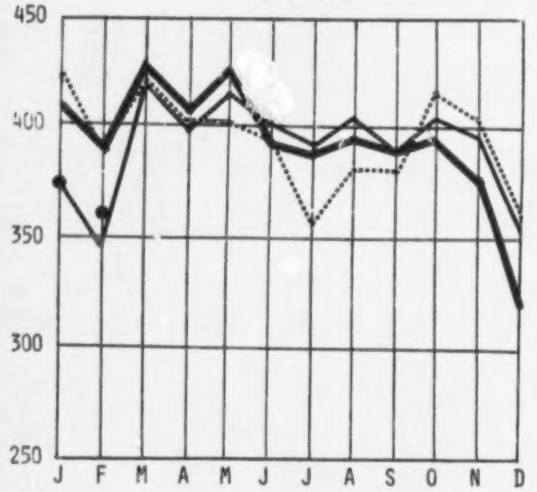
UNBLEACHED KRAFT LINERBOARD
PRODUCTION



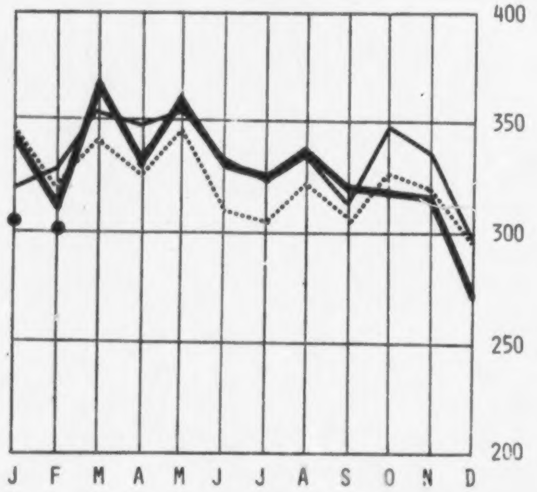
RECYCLED PAPERBOARD



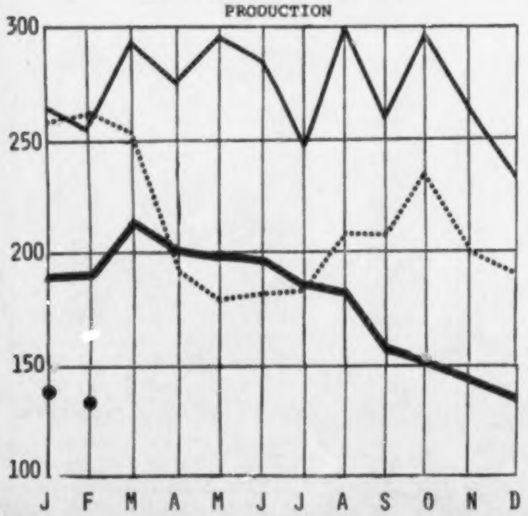
SEMI-CHEMICAL PAPERBOARD
PRODUCTION



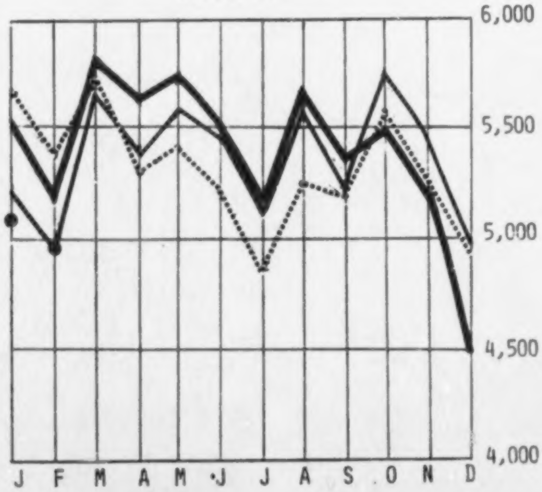
SOLID BLEACHED PAPERBOARD
PRODUCTION



WET MACHINE BOARD AND BUILDING PAPER AND BOARD
PRODUCTION



TOTAL PAPER AND BOARD
PRODUCTION



1979 —— 1980 ········ 1981 ━━━ ● 1982

PULP, PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 1981 Tons	YEAR 1981 $000	DEC. 1981 Tons	DEC. 1981 $000	JAN. 1982 Tons	JAN. 1982 $000	(1) Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic Feet)	168331	8878	9515	478	9121	405	108452	-55.5
Pulpwood Chips	1684969	51400	123540	4088	142588	3938	1711058	4.4
Total All Imports	12551710	5457134	872953	418981	954300	433504	11451601	-11.1
Wood Pulp, Total	4086688	1754318	269237	119934	270285	118309	3243420	-28.8
Waste Paper	70121	11307	5825	873	5569	789	66828	-22.0
Other Fibrous Materials	54376	19535	4016	1709	3134	1407	37602	-0.5
Paper, Paperbd&Products, Total	8340518	3671874	643875	296465	675313	312000	8103751	-1.1
Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board	8245075	3362125	635968	271181	667756	289922	8013078	-1.5
Paper, Total	7716283	3247849	616568	266509	648290	284768	7779485	1.2
Newsprint	6977118	2824777	557315	234052	584582	247278	7014984	0.2
Printing & Writing	638538	347116	53933	28068	58418	33575	701011	23.5
Uncoated Groundwood	458815	219697	36184	17192	35507	17529	426085	4.5
Uncoated Book	114422	64874	11942	5705	10559	8262	126706	55.7
Coated Print.& Impres. Par	38321	28765	3209	2178	6423	5056	77070	20.3
Bristols	810	656	74	80	4	4	43	-61.7
Writing and Similar Paper	12955	15478	1207	1191	4509	2353	54103	899.1
Thin (except Cigarette)	12015	17647	1317	1723	1417	2351	17004	85.3
Total Pkg & Other Paper	93566	71127	4882	4100	4792	3483	57506	-49.8
Unbleached Kraft Paper	32532	14872	1193	646	2934	1503	35213	-18.6
Other Pkg. & Indust. Paper	61034	56254	3689	3454	1858	1980	22294	-68.9
Tissue	7040	4830	439	289	499	432	5983	3566.2
Paperboard, Total	130633	34754	6357	1693	5668	1764	68018	-41.9
Test or Containerboard	48169	12072	1323	342	907	208	10884	-79.8
Semi-Chemical Corrugating	52468	11695	3392	773	2607	536	31278	-27.2
Other Paperboard	29997	10987	1643	578	2155	1019	25856	28.3
Wet Machine Board	1684	1185	105	79	122	85	1486	59.1
Construction Paper & Bd. *	396496	78337	12839	2901	13876	3306	164106	-50.1
Building Paper	355284	65826	11070	2264	11278	2274	135336	-53.0
Insulating Board	25393	7381	1376	472	1485	638	17813	-18.5
Other Building Board	15813	5031	494	164	913	393	10954	-43.1
Convtd Paper&Paperbd Products	95440	309849	7906	25285	7556	22079	90876	39.5
Paper Products, Total	87414	293726	7092	23565	6821	20559	81848	37.8
Paperboard Products, Total	8027	16123	814	1720	736	1520	8827	57.2
Notes								
Other: No Weight Avail. ($000)		125935		8966		10126	121517	-59.1
Total Imports Incl. Other($000)		5583069		427947		443631	5323572	-6.5

EXPORTS

	YEAR 1981 Tons	YEAR 1981 $000	DEC. 1981 Tons	DEC. 1981 $000	JAN. 1982 Tons	JAN. 1982 $000	(1)	
Pulpwood, Roundwood (in cords of 128 cu. ft.)	188598	10555	15156	775	6370	327	76440	-54.6
Pulpwood Chips	3846048	314037	255797	21025	300588	25158	3606816	-19.7
Total All Exports	10858449	4807532	812405	382739	704484	328188	8453929	-19.3
Wood Pulp, Total	3677815	1661311	314872	141589	221224	88387	2654688	-24.1
Cotton Pulp and Other Pulp.	131910	85195	8941	6115	8193	5547	98316	-7.9
Waste and Old Paper	2212549	268526	150417	17811	166301	17988	1995612	-14.1
Paper, Paperbd&Products, Total	4636175	2892500	338075	217214	308776	205299	3705313	-18.6
Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board	4033533	2078198	296320	152961	264611	141992	3175333	-18.6
Paper, Total	1008424	846566	74636	61036	75427	63426	905120	-8.4
Newsprint	270450	139702	21549	11785	29223	15216	350675	156.3
Printing & Writing	383307	354609	24519	23001	19272	20409	231282	-36.4
Uncoated Groundwood	119663	91867	7491	6035	5393	4884	64715	-17.7
Clay Coated Paper	88587	78329	6303	5751	4567	4272	54802	-45.5
Uncoated Free Sheet	116750	119592	7236	6847	5467	6124	65906	-47.7
Other Printing & Writing	58307	64722	3489	4368	3845	5129	46138	-22.1
Total Pkg. & Other Paper	302925	304413	26135	23600	24511	25147	284137	-24.8
Unbleached Kraft	110805	50980	7557	3416	4804	2527	57846	-61.7
Other Pkg. & Indust. Paper	192121	253433	18578	20184	19708	22620	236491	-1.8
Tissue	51743	47842	2433	2651	2421	2654	29047	-69.8
Paperboard, Total	2944958	1193988	216418	86184	184426	76372	2213114	-21.9
Solid Wood Pulp	2771448	1109214	204830	83485	173974	71198	2087687	-17.0
Total Linerboard	1973505	660285	134887	44050	119050	38853	1428601	-21.9
Bleached Kraft Linerboard	151996	52547	6145	2255	4480	1821	53761	-75.2
Unbleached Kraft Linerbd	1821509	607739	128742	41796	114570	37032	1374840	-14.8
Other Unbleached Kraft	147882	63341	11618	5009	11598	5312	139182	-20.0
Other Bleached Kraft	584222	366000	47268	31480	38361	25917	472334	13.1
Semi-Chemical Corrugating	65628	19589	11058	2946	3864	1017	47569	-48.6
Recycled Paperboard	173510	84764	11588	5698	10452	5174	125428	-60.7
Wet Machine Board	10813	7040	693	493	754	445	9053	-29.8
Construction Paper & Bd. *	69338	30595	4574	2248	4004	1750	48046	-28.1
Building Paper	22691	12364	1539	899	2101	1010	25211	7.0
Insulating Board E	46647	18231	3035	1349	1903	739	22835	-47.2
Convtd Paper&Paperbd Products	602642	814303	41755	64253	44165	63307	529980	-18.9
Paper Products, Total	357953	584059	26547	48391	24550	45490	294601	-10.1
Paperboard Products, Total	244689	230244	15208	15863	19615	17817	235378	-27.7
Notes								
Other: No Weight Avail. ($000)		11235		853		876	10507	20.7
Total Exports Incl. Other($000)		4918787		383591		328074	8464438	-19.3
* Hard Pressed Board (not in total)								
Imports of Hard Pressed Board	189466	42080	13621	2616	9599	1834	115188	-20.4
Exports of Hard Pressed Board	81046	19111	4966	1723	2633	912	31586	35.2

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PAPER AND PAPERBOARD PRODUCTION

CENSUS DATA

(Thousands of Tons)

	YEAR 1979	1980	AUG. 1981	SEPT 1981	OCT. 1981	NOV. 1981	Annual Rate Y-T-D 1981	% Change From same Period Last Year
					R	P		
PAPER								
Newsprint	3776	4660	456	439	487	455	5326	14.4
Uncoated Groundwood Papers	1800	1538	127	114	127	108	1458	-5.2
Coated Papers	4580	4751	415	425	420	402	4889	5.4
Uncoated Free Sheet (1)	7655	8008	649	659	667	626	7902	-1.6
Cotton Fiber Paper (1)	130	131	9	9	10	11	118	-9.5
Thin Papers	371	333	28	27	28	25	338	1.6
Bleached Bristols	957	941	88	82	80	85	884	3.8
Tissue Paper	4601	4474	385	384	407	383	4540	1.1
Unbleached Kraft Packaging & Industrial Conv. Papers(1)	3811	3718	303	302	301	282	3679	-1.9
Other Paper (1)	1797	1808	143	133	140	133	1824	0.7
TOTAL PAPER GRADES	29580	30184	2603	2557	2677	2498	30940	2.4
PAPERBOARD								
Solid Wood Pulp Furnish	23585	23902	2072	2059	1983	1929	24581	2.0
Unbleached Kraft Linerboard	13857	14248	1280	1255	1183	1189	14760	2.6
Other Unbl. Kraft Paperboard	1046	1036	80	82	78	80	1080	2.1
Bleached Kraft Paperboard	4065	4034	341	340	335	317	4085	0.8
Semi-Chemical Paperboard	4617	4583	370	382	386	343	4656	1.1
Recycled Paperboard	7383	7242	633	628	636	561	7472	3.3
TOTAL PAPERBOARD GRADES	31168	31143	2705	2686	2629	2491	32053	2.3
WET MACHINE BOARD	144	138	14	14	14	9	154	12.8
CONSTR. PAPER & INSUL. BOARD	3131	2420	166	141	137	137	2032	-16.9
TOTAL ALL GRADES [Excl. H.P.B.]*	64023	63885	5488	5398	5456	5134	65180	1.6

PRODUCER PRICE INDEXES

1967 = 100

	1980	1981	NOV.	DEC.	JAN.	FEB.	1982	
Pulp, Paper and Products	249.2	273.6	280.2	280.7	283.0	285.4	284.7	7.7
Pulp, Paper & Products, except Waste Paper #	248.9	275.4	282.5	285.5	288.4	288.1	287.3	8.2
Total Wood Pulp	380.3	397.7	417.0	417.0	412.8	412.8	412.8	5.8
Total Paper	256.8	279.7	285.9	287.5	288.0	289.5	289.2	8.2
Total Paper, exc. Newsprint	249.3	271.1	278.4	278.1	281.3	282.1	281.7	7.3
Newsprint	279.7	307.3	314.4	316.8	316.8	316.8	316.8	4.8
Total Paperboard	234.6	258.1	261.6	259.3	259.7	261.4	260.6	3.4
Total Paper and Paperboard #	248.8	273.1	278.1	278.7	279.7	280.7	280.2	5.4
Converted Products	238.5	259.0	263.9	263.9	263.8	264.8	264.4	6.0
Waste Paper	208.7	175.7	144.5	143.4	135.2	128.8	132.0	-30.1
All Commodities	268.8	293.4	295.5	295.8	298.2	298.5	298.4	4.3
Industrial Commodities	274.8	304.1	308.1	310.1	311.7	311.4	311.6	6.2

(1) - Grade definitions revised by Census as of January 1979. New grades now consistent with API definitions. 1977 and 1978 Census data adjusted by API for comparability with 1979.

* See page 3 for Hard Pressed Board data. # Computed by API P-Preliminary R-Revised

SOURCES: Production - Bureau of Census, U.S. Department of Commerce
Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor

Continued from Page 2

The weakness in demand for construction paper and paperboard, which, in turn, stemmed from the very low rate of activity in new housing construction, was reflected in a 50% decline in imports of construction paper and board in January 1982 from the January 1981 level. Imports of these grades amounted to nearly 400,000 tons in 1981.

Imports of fiber in January 1982 showed sharply divergent trends. Imports of pulpwood chips, at 143,000 tons, were 4% ahead of their year-earlier level, while pulpwood roundwood imports, at about 9,000 cords, were down 55%. Wood pulp imports, which amounted to 4.1 million tons in all of 1981, totaled 270,000 tons in January 1982, 29% below their year-ago level, representing a rate of only 3.2 million tons per year. Domestic production of wood pulp in January 1982, in line with the weakness in paper and paperboard production, was 9% below its year-earlier level.

Weakness in worldwide paper and paperboard demand and poor weather in January 1982 contributed to the 19% decline in the total volume of U.S. exports of wood pulp, waste paper, paper, paperboard and products. Wood pulp exports in January 1982 were 24% below their January 1981 level. API data showed export shipments of chemical paper grade market down about 21% in this same period. A strong recovery in these exports in February 1982 brought the January-February 1982 total to within 3% of its year-ago level.

Census data showed exports of paper, paperboard and products down 19% in January 1982 from their year-ago level, with paperboard exports down 22% and paper exports off by 8%. However, exports of newsprint, in line with the availability of new U.S. capacity, at 29,000 tons, were 156% ahead of their January 1982 rate. Exports of the other paper grades were down sharply.

Capital Expenditures

The Department of Commerce, in its March 11, 1982 release, confirmed that paper industry expenditures on new plant and equipment in 1981 totalled $6.72 billion, a shade below the record $6.8 billion spent in 1980 but 21% above the $5.55 billion spent in 1979. The government agency made a remarkably good record in estimating paper industry's 1981 expenditures on plant and equipment. In March 1981 its estimate for the full year 1981 was $6.73 billion; its current estimate for paper industry expenditures on new plant and equipment for the full year 1982 is $6.75 billion.

Commerce also reported that such expenditures in the first quarter of 1982 were expected at the rate of $6.17 billion per year, and that they would rise to $6.3 billion per year in the second quarter and average a record high $7.2 billion per year in the last six months of 1982. The attainment of these high levels in the second half of the year is uncertain.

Continued on Page 12

Continued from Page 11

These expenditures were reported on a constant dollar (1972 price level) basis. Analysis of the published data show that the price index of paper industry plant and equipment expenditures rose by 8% from 1980 to 1981, so that the "real" rate of expenditures, that is, the rate adjusted for such price increases, actually fell by 8.5%.

While the Department of Commerce did not project real capital expenditures on an industry-by-industry basis, it did make such projections for total non-farm business expenditures and for several of the major sub-groups. For the nation as a whole, it indicated that capital expenditures would rise by 7.3% in current dollars in 1982, but that prices to purchase these goods would rise by 8.4%, so that real expenditures would decline by about 1%. The reported figures show that the real rate of expenditures would rise during the course of 1982, with the rate in the second half of the year above the average 1981 level.

The Conference Board reported a somewhat more optimistic view of future plant and equipment expenditures by paper and allied products companies. The Board reported that those paper and allied products companies included in the 1,000 largest U.S. companies appropriated $1,304 million for new plant and equipment in the fourth quarter of 1981 compared with $892 million in expenditures in that quarter. After adjusting for cancellations, the backlog of unspent appropriations rose to $4,685 million, a record current dollar level and, when adjusted for price changes, nearly matching the constant dollar peak reached in the first quarter of 1980. Since the end of the first quarter of 1981 these companies increased their unspent backlog of capital appropriations by $1.3 billion.

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

MARCH 24, 1982

PRODUCTION (000 TONS)

	Feb. 1982	Jan. 1982	Feb. 1981	Jan - Feb. 1982	Jan - Feb. 1981	% Change 82/81
PAPER GRADES	P	R				
Newsprint	416	458	393	874	810	7.8
Uncoated Groundwood (s)	106	109	114	215	242	-11.4
Coated Paper (s)	374	404	391	778	816	-4.7
Uncoated Free Sheet Paper (s)	610	647	627	1257	1287	-2.3
Thin Paper (c)	25	25	28	50	55	-10.1
Cotton Fiber Paper (s)	10	10	11	20	21	-5.8
Bleached Bristols (s)	100	94	91	194	176	10.2
Tissue Paper	335	354	353	689	730	-5.6
Unbleached Kraft Packaging & Indl. Converting (s)	300	309	323	609	660	-7.7
Other Paper (c)	125	131	123	256	261	-1.9
TOTAL PAPER	2401	2540	2453	4940	5058	-2.3
PAPERBOARD GRADES						
Kraft Linerboard, Unbleached	1154	1074	1173	2228	2410	-7.6
Other Kraft Paperboard	85	97	83	182	180	1.1
Semichemical Paperboard	357	376	389	733	797	-8.0
Bleached Paperboard	301	307	311	608	653	-6.9
Recycled Paperboard	551	554	582	1105	1208	-8.5
TOTAL PAPERBOARD	2448	2408	2539	4856	5248	-7.5
CONSTRUCTION & WET MACH GRADES(c)	134	139	191	274	379	-27.7
TOTAL PAPER AND PAPERBOARD	4983	5087	5182	10070	10685	-5.8
HARD PRESSED BD.[not in total](c)	110	107	162	217	322	-32.7

WOOD PULP (ALL GRADES)	Jan. 1982	Dec. 1981	Jan. 1981	Jan - Jan. 1982	Jan - Jan. 1981	% Change 82/81
Dissolving & Special Alpha	99	85	116	99	116	-14.5
Bleached Sulphite	101	101	131	101	131	-22.9
Unbleached Sulphite	28	30	34	28	34	-16.2
Bleached & Semi-Bl. Sulph.	1628	1410	1667	1628	1667	-2.3
Unbleached Sulphate	1397	1266	1639	1397	1639	-14.8
Semichemical	308	280	346	308	346	-11.0
Groundwood and Thermo-Mechanical	430	420	443	430	443	-2.9
TOTAL PULP DIVISION DATA	3991	3590	4376	3991	4376	-8.8
Defib. Exploded & Scrngs E	141	134	203	141	203	-30.7
TOTAL WOOD PULP PRODUCTION	4132	3724	4579	4132	4579	-9.8

Note: Paperboard cumulative totals include revisions not available monthly.

(s) - Shipments R - Revised E - Estimate
P - Preliminary (c) - Census Data - Production, last 2 months estimated.

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MARCH 30, 1982	Full Year		INDUSTRY DATA			Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1980	1981	December	January	February	1982	
Total Production (API).......| |...	63701	64497	4483	5087	4983	60418	-5.8
Total Seasonally Adjusted....| excluding |...			4989	5153	5239	62356	-5.5
Imports (including Products).|hard pressed|..E	8778	8341	644	675	N.A.	8072E	-2.8
Exports (including Products).| board |..E	5214	4636	338	309	N.A.	3587E	-19.4
Apparent Consumption.........| |...	67265a	68201b	5294	5520	5620E	66840Ec	-4.3
Paper Production % Tonnage Capacity...........	92.4s	92.2s	77.5	85.4	87.9	87.9sh	-
Paperboard Production % Tonnage Capacity......	91.8s	91.5s	67.4	80.4	88.7	84.4s	-
			November	December	January		
MARKET WOOD PULP PRODUCTION - Tons (000)........	6488	6190	541	419	425	5096	-17.7
TOTAL WOOD PULP PRODUCTION - Tons (000)..(f)....	50737	51985	4267	3590	3991	47897	-8.8
WOOD PULP IMPORTS - TONS (000)..................	4051	4087	318	269	270	3243	-28.8
WOOD PULP EXPORTS - TONS (000)..................	3806	3678	267	315	221	2655	-24.1
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS			November	December	January		
Wood Pulp..(k)............................	50364	51652	4188	3571	3907	46882	-11.0
Waste Paper....(d)........................	14922	15409	1225	1108	1218	14616	-8.1
Other (Census)............................E	607	625	49	43	47	564	-16.1
Total................	65893	67686	5462	4722	5172	62062	-10.4
..WOOD PULP - NON PAPER.........................E	825	781	61	58	60	720	-12.4
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	80522	79604	6459	5658	6396	76752	-4.5
EMPLOYMENT (000)			December	January	February		
Paper and Allied Products..........Total......	694.0	692.3	681.7	674.2	671.1	672.7	-2.2
Pulp, Paper and Board Mills........Total.....E	269.0	268.4	263.3	261.7	260.5	261.1	-2.1
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products.....................	7.84	8.60	8.96	9.06	8.98	9.02	9.0
Pulp, Paper Mills..........................E	9.15	10.05	10.45	10.49	10.46	10.48	9.1
Paperboard Mills...........................E	9.28	10.23	10.66	10.80	10.72	10.76	9.7
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1981 Q3	1981 Q4	1982 Q1		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	6.80	6.72	7.01	6.56	6.17	6.17QI	-11.0
INDEX OF OUTPUT PER MAN-HOUR (1977=100).........			December	January	February		
|IN PULP, PAPER |...Production Worke...........	107.8	108.1	105.0	107.5	107.1	107.3	-3.7
|AND BOARD MILLS|...All Employees..............	106.3	107.0	103.7	105.9	105.8	105.8	-3.9
PAPER AND ALLIED PRODUCTS (Million $)			November	December	January		
Industry Shipments (Dept. of Commerce)*.......	71736	77764	6533	6553	6599	79188	5.1
Pulp, Paper and Paperboard*.................	31952	34181	2906	2819	2832	33984	3.3
Inventories (End of Period) - Total Industry*.	7798	8817	8822	8817	8722	8722	7.8
Pulp, Paper and Paperboard*.................	2794	3301	3291	3301	3326	3326	14.0
			1981 Q3	1981 Q4	1982 Q1		
Sales (Corporations Only, FTC)................	54737	59896y	15271	N.A.	N.A.	N.A.	N.A.
Earnings (Corporations Only, FTC).............	2781	2985y	625	N.A.	N.A.	N.A.	N.A.
Depreciation (Corporations Only, FTC).........	1990	2199y	565	N.A.	N.A.	N.A.	N.A.
Net Worth (Corporations Only, FTC)............	23873	25238(Q3)	25238	N.A.	N.A.	N.A.	N.A.
PRICE INDEXES (Bureau of Labor Stats)1967=100			December	January	February		
Total Pulp, Paper and Allied Products.........	249.2	273.6	280.7	283.9	285.4	284.7	7.7
Wood Pulp.....................................	380.3	397.7	417.0	412.8	412.8	412.8	5.8
Waste Paper...................................	208.7	175.7	143.4	135.2	128.8	132.0	-30.1
Paper...	256.8	279.7	287.5	288.8	289.5	289.2	6.2
Paperboard....................................	234.6	258.1	259.3	259.7	261.4	260.6	3.4
PAPER DEMAND (INDEXED: 1967=100)			December	January	February		
Total Paper Production *......................	143.9	148.3	141.3	146.7	143.6	145.1	-2.2
Paper New Supply *............................	136.1	137.6	131.8	137.2	134.6	135.9	-1.2
Total End - Use Index *.....................	146.3	150.3	149.5	149.6	150.8	150.2	-0.2
Production of Nondurable Goods *...(19%)..	161.2	164.6	156.9	153.5	155.8	154.6	-6.8
Disposable Income (Constant $) *...(23%)..	151.0	154.3	155.1	155.6	156.0	155.8	1.8
Total Printing and Publishing *...(58%)..	139.5	144.0	144.9	146.0	147.1	146.5	1.5
Trend Factor	----------------------------		-------Not Available-------			----------------------------	
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *.................	135.4	137.5	124.8	128.6	135.9	132.2*	-7.1
Production for Domestic Use	128.3	133.7	122.7	125.8	131.7	128.7	-8.1
Total End - Use Index *.....................	146.1	149.2	141.3	138.2	140.5	139.4	-6.9
Production of Consumer Goods *...(60.49%)	145.4	147.7	141.4	138.6	140.9	139.8	-5.2
Production of Equipment *...(6.62%)	145.2	151.7	151.8	147.5	148.8	148.1	-0.5
Production of Materials *...(32.89%)	147.6	151.5	139.1	135.6	138.1	136.9	-11.2
Trend Factor	----------------------------		-------Not Available-------			----------------------------	
NEWSPRINT MARKETS			November	December	January		
Consumption by Publishers - Tons (000)........	11121	11205	1008	983	880	10555	2.2
Newspaper Pub. and Printing Empl. Total(000)..	422.8	432.0	438.4	441.2	435.8	435.8	2.5
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)..........	118372	121721	14045	10046	8143	97719	2.5
WHOLESALERS SALES AND INVENTORIES (Million $)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	21643	24808	2042	2033	1967	23604	0.9
Inventories (End of Period)	1849	2095	2072	2095	2117	2117	14.6
Paper Only.............................Sales	15879	17911	1442	1446	1372	16464	-1.8
Inventories (End of Period)	1248	1407	1362	1407	1443	1443	16.2
RETAIL TRADE (Million $)			December	January	February		
Total Retail Sales *..........................	953984	1044587	87444	86165	87552	1042302	0.8
Nondurable Goods Stores Sales *...............	656231	716262	60750	60409	61014	728538	3.9
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	147.0	150.9	143.2	139.6	141.8	140.7	-7.2
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	268.8	293.4	295.9	298.2	298.5	298.4	4.3
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	246.8	272.3	281.5	282.5	283.4	283.0	8.1
			November	December	January		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	313.4	333.1	328.9	333.1	330.1	330.1	6.2
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$).			1981 Q3	1981 Q4	1982 Q1		
G.N.P. or Expenditure - Current $.............	2626.1	2925.5	2965.0	2998.3	N.A.	N.A.	N.A.
G.N.P. OR Expenditure - 1972 $................	1480.7	1510.3	1515.8	1498.4	N.A.	N.A.	N.A.

lb/capita	Popul.(mil)
.a - 591	227.7
.b - 594	229.7
.c - 579	231.0

.d - 1979 - 13012; 1980 - 12583
. Jan-Nov.'81 ARY-T-D - 13532
. (000 tons) as pub. by Census
.E - last month estimated by API

f - Wood Pulp Production excludes estimates for def. expl. & scrngs. Prod. was: 1979 - 3,060R; 1980 - 2625; 1981 2350 (000 tns)
s - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
k - Excludes consumption of defib. & expl. pulp for hard p. bd.: '79 - 1,536; '80 - 1,376 (000 tons) 1981 - 1211

N.A. - Not Available
P - Preliminary
q - Quarter
R - Revised
RS - Revised Series
y - Full year estimated from first three quarters.
* - Seasonally adjusted

A2500-2

Paper Paperboard & Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 60 - No. 4 APRIL, 1982

Production down from 1981 levels

Production of paper and paperboard (excluding wet machine board and the building grades) in March 1982 totalled 5.4 million tons; about 3% below the 5.6 million tons reached in March 1981. The average rate of production for the first quarter of 1982, adjusted for seasonal and work day factors, was about 61 million tons a year, 3.5% below the cyclical peak attained in the first quarter of 1981, but about 1% above the fourth quarter 1981 seasonally adjusted rate. These trends suggest that the low point in the current paper and board production cycle was made in the fourth quarter of 1981 and that the first quarter 1982 rate represented the start of a small but unsteady recovery. Data on the production of paper and paperboard for the early weeks of April indicate that some of the mills took extended down time for the Easter holiday; the April production rate is probably below that of March.

These trends in production are more or less consistent with the pattern of total economic activity, although the quarter-to-quarter changes were not identical. For example, total economic activity, as measured by the real Gross National Product, declined at the rate of 3.9% a year from the fourth quarter of 1981 to the first quarter of 1982 with the first quarter 1982 level about 2% below that of the first quarter of 1981. Personal consumption expenditures on goods (after adjustment for price changes) were off by nearly 1% from the first quarter of 1981 to the first quarter of 1982, with expenditures for non-durable goods showing a slight increase while expenditures for durable goods were down. Consistent with this pattern, paper production showed only a 0.6% decline from the first quarter of 1981 to the first quarter of 1982, while paperboard production, which is more sensitive to inventory changes in the economy, was off by 6.4%.

Continued on Page 2

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Continued from Page 1

A similar consistency is shown in the relationship between paper and board production and the appropriate sectors of industrial production. For example, the production of non-durable consumer goods in the first quarter of 1982 was 1.5% below its year-ago level while the production of durable consumer goods, excluding automotive products, was off about 12%. These trends probably reflected the effects of reductions of inventories throughout the business structure. The preliminary GNP data for the first quarter 1982 show that business inventories (measured in 1972 prices) were reduced at the exceptionally large rate of about $17 billion per year. That alone accounted for nearly all of the reduction in the real GNP from the fourth quarter of 1981 to the first quarter of 1982. Consumer expenditures for both durable and non-durable goods rose slightly in the first quarter while fixed investment by business declined at a rate of only 2.7% per year. Thus, final sales (GNP less the change in business inventories) in the first quarter of 1981 rose at a rate of 1.9% per year and moved slightly above the level of the last three quarters of 1981.

Paper grades: The relatively small decline in the production of paper this year compared with year-ago levels reflects continued strength in newsprint production offset by only modest declines in the other paper grades. Newsprint production in the first quarter of 1982 was 7% above the year-ago total, with some of the production moving into publishers' inventories in anticipation of potential work stoppages in Canada. The production of printing/writing papers in the first quarter of 1982 was 2.6% below its year-ago total; tissue papers were off 1.8% and packaging papers down about 1%.

Paperboard grades: Paperboard production in the first quarter of 1982 was down about 6.4% from its year-ago level with declines experienced in almost all of the grade structure. The production of containerboard for domestic use fell 8%; boxboard for domestic use was down about 5.5%. The weakness in containerboard production is consistent with the trend in shipments of corrugated shipping containers, which were also about 6% below their year-ago levels in the first quarter of 1982, and with the need to reduce heavy inventories of linerboard at box plants.

Among the boxboard grades, the production of folding boxboard in the first quarter of this year was about 7% below last year, with solid bleached for domestic use down a little over 5%, and recycled down a little under 7%. Production of bleached paperboard for milk carton and food service in the first quarter fell 9% below year-ago levels. The one major movement contrary to this trend was in production of paperboard for export, which showed a 2.4% gain over last year, with unbleached kraft production for export up 5%.

Continued on Page 11

PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS

(Thousands of Tons)

	YEAR 1980	YEAR 1981	DEC. 1981	JAN. 1982	FEB. 1982	MARCH 1982	Annual Rate Y-T-D 1982	% Change From same Period Last Year
PAPER					R	P		
Newsprint - Production	4672	5239	395	458	416	466	5358	7.2
- Shipments	4667	5220	404	448	415	466	5315	7.1
Printing & Writing	15605	15805	1186	1294	1243	1368	15624	-2.6
Groundwood Paper - Shipments	1488	1441	113	110	108	127	1382	-5.1
- New Orders	1475	1426	122	113	112	121	1385	-9.0
- Unfilled Orders	110	112	112	90	99	97	97	-26.5
Coated Paper - Shipments	4673	4951	389	404	389	432	4901	-2.3
- New Orders	4753	4866	363	397	412	402	4842	1.1
- Unfilled Orders	391	308	306	343	385	340	340	3.8
Unctd Free Sheet - Shipments	7983	7682	575	648	630	671	7795	-2.5
- New Orders	7694	7706	592	627	612	670	7636	-4.3
- Unfilled Orders	546	402	402	339	340	329	329	-41.0
Thin Paper - Production	343	336	25	28	27	32	350	-0.2
Cotton Fiber Paper - Shipments	126	119	9	10	9	11	122	-5.3
Bleached Bristols - Production	982	1077	75	94	80	95	1075	-1.6
Tissue Paper - Production	4375	4485	350	355	365	385	4419	-1.8
Total Packaging & Other Paper	5539	5500	390	456	459	495	5640	-0.9
Unbl. Kraft Paper - Shipments	3930	3891	269	311	324	343	3912	-4.2
Other Paper - Production * #	1609	1609	121	145	135	152	1728	7.4
TOTAL PAPER-Production-Unadj.	30191	31028	2321	2562	2484	2714	31041	-0.6
-Production-S.A.			2474	2583	2593	2515	30765	-0.6
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	23881	24268	1563	1854	1877	2101	23330	-6.6
Unbl. Kraft Linerboard (1)	14232	14558	908	1074	1140	1272	13945	-6.2
Production for Export	2380	1824	115	132	184	180	1906	5.2
Other Unbl. Kraft Paperboard	1063	1067	67	97	85	100	1129	1.4
Semichemical Paperboard	4723	4717	320	376	351	395	4488	-8.6
Production for Export	322	140	8	11	15	15	164	12.5
Solid Bleached Paperboard	3862	3926	289	307	302	333	3769	-7.7
Production for Export	545	554	45	43	41	51	539	-4.8
Recycled Paperboard	7071	7070	472	554	568	615	6846	-6.0
Production for Export	83	21	2	1	1	1	14	-62.1
TOTAL PAPERBOARD-Prod.-Unadj.	30852	31338	2035	2408	2445	2716	30277	-6.4
- Containerboard Prod.(Dom. Use)	18070	19138	1227	1441	1449	1630	18085	-8.2
- Boxboard Prod.(Dom. Use) (2)	5477	5560	363	444	461	479	5533	-5.5
- All Other P'bd Prod.(D.U.) (2)	4075	4089	276	335	313	361	4036	-5.1
- Total Paperbd Prod. for Export	3329	2540	170	183	222	246	2622	2.4
TOTAL PAPERBOARD PROD. - S.A.			2372	2445	2582	2520	30184	-6.5
WET MACHINE BOARD *	136	151	9	11	11	13	136	-14.1
BUILDING PAPERS *	1369	1143	60	70	69	80	876	-34.5
INSULATING BOARD *	1051	820	42	53	51	55	636	-27.5
TOTAL ALL GRADES - Unadjusted	63701	64481	4467	5104	5060	5578	62966	-4.5
- Production - S.A.			4871	5170	5319	5171	62643	-4.9
HARD PRESSED BD. [not in total]*	1970	1858	95	107	111	125	1372	-30.8

* Census Data - Production. Last three months estimated.
# 1981 data estim. by API to conform to revised data for prior years.
(1)Includes all exports of Kraft paperboard.
(2)Data for unbl. Kraft folding boxboard incl. in All Other P'bd.

S.A. Seasonally Adjusted
P Preliminary
R Revised

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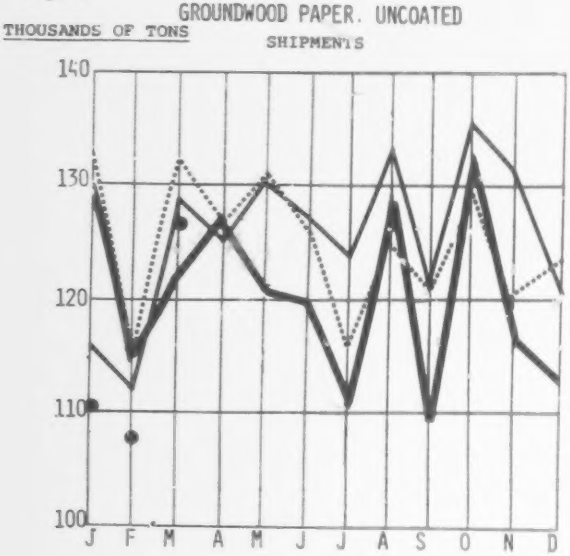
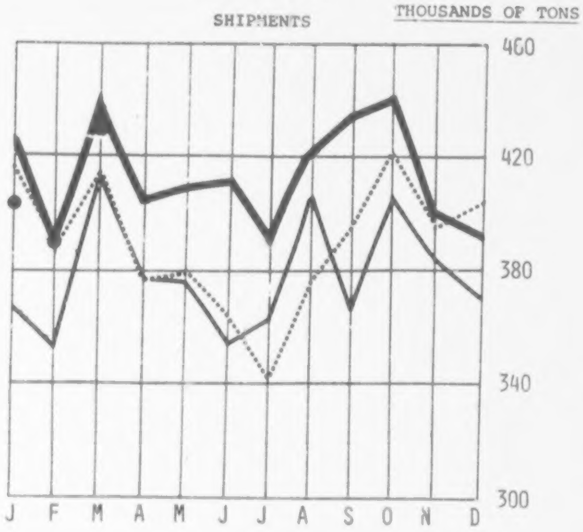
GROUNDWOOD PAPER. UNCOATED

SHIPMENTS



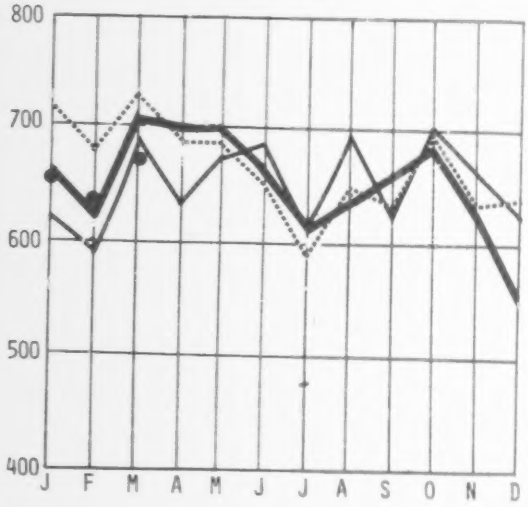
COATED PAPER

SHIPMENTS



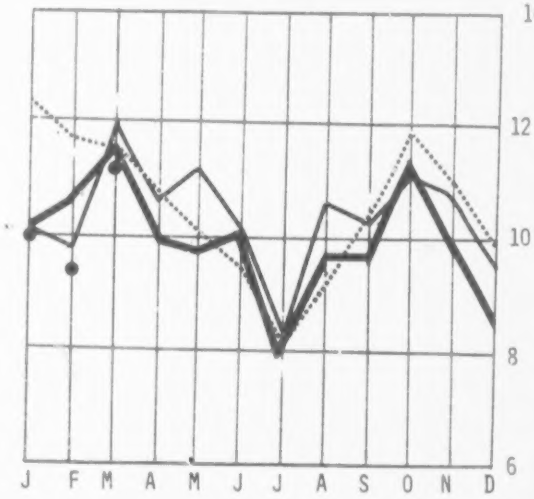
UNCOATED FREE SHEET PAPERS

SHIPMENTS



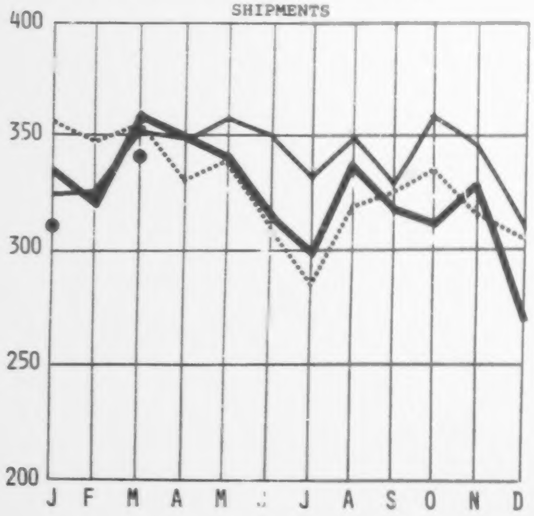
COTTON FIBER PAPER

SHIPMENTS



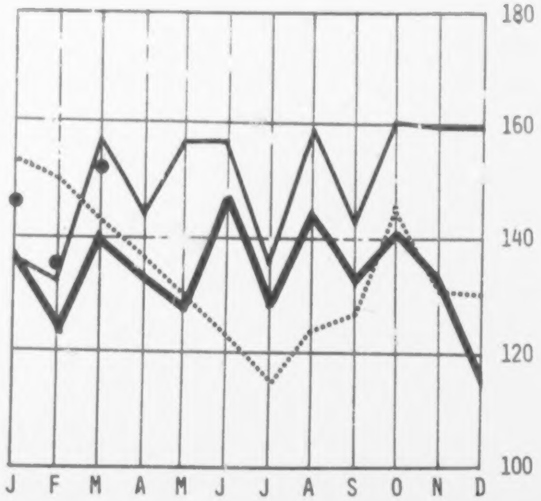
UNBLEACHED KRAFT PACKAGING
AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



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WOOD PULP STATISTICS
(Thousands of Tons)

	YEAR		NOV.	DEC.	JAN.	FEB.	Annual Rate Y-T-D	% Change From same Period Last Year
	1980	1981	1981	1981	1982	1982	1982	
TOTAL WOOD PULP (1)					R	P		
Total Wood Pulp - Production	50737	51885	4287	3580	4062	4188	48488	-3.2
- Imports	4051	4087	318	268	270	310	3478	-21.1
- Exports	3806	3878	267	315	221	303	3143	-8.2
- New Supply	50982	523[illegible]4	4318	3544	4111	4195	48835	-4.4
Dissolving Pulp - Production	1508	1385	129	85	99	105	1228	-11.6
- Imports	283	249	13	15	30	11	245	1.8
- Exports	788	784	53	85	50	42	548	-29.1
- New Supply	1002	830	89	14	79	74	824	8.1
Paper Grades Chemical Pulp - Production	40436	41376	3398	2806	3186	3389	38380	-2.9
- Imports	3615	3655	288	250	228	287	3081	-20.7
- Exports	2956	2870	213	226	168	260	2568	-1.9
- New Supply	41085	42161	3472	2830	3256	3396	38912	-4.6
Groundwood and Thermo-Mech. - Production	4767	5320	441	420	441	415	5132	-0.7
- Imports	173	183	18	4	12	12	143	-47.4
- Exports	81	24	0	4	3	1	28	-12.1
- New Supply	4859	5478	458	421	450	425	5249	-3.0
Semi-Chemical - Production	4026	3924	300	280	326	298	3748	-6.7
- Imports	0	0						
- Exports	0	0	------ Included with Groundwood Pulp ------					
- New Supply	4026	3924	300	280	326	298	3748	-6.7
MARKET WOOD PULP								
Total Market Wood Pulp - Production	6488	6190	541	418	425	533	5743	-6.2
- Imports	2947	2924	214	233	222	228	2703	-9.9
- Exports	3513	3352	243	338	186	282	2808	-6.4
- New Supply	5921	5761	512	313	461	479	5638	-7.5
Dissolving Pulp - Production	1506	1337	129	85	65	120	1226	-11.4
- Imports	235	241	13	15	25	11	211	-18.1
- Exports	876	787	60	91	48	51	593	-13.5
- New Supply	865	791	82	9	62	79	844	-11.8
Paper Grades Chemical Pulp - Production	4913	4852	412	334	340	413	4518	-4.6
- Imports	2687	2634	198	215	195	215	2458	-7.3
- Exports	2588	2555	183	247	139	231	2216	-2.9
- New Supply	5012	4931	427	302	396	397	4760	-6.7
Groundwood Pulp and All Other - Production	69	1	0	0	0	0	0	0.0
- Imports	26	49	2	3	3	3	34	-63.9
- Exports	50	10	0	0	0	0	1	-98.0
- New Supply	44	40	3	3	3	3	33	-47.5

(1) Prodctn excludes defibrated, exploded & screenings-(000 tons): 1978 - 3,080; 1980 - 2,825; 1981 - 2,350

SOURCES: Total Wood Pulp Imports & Exports - Department of Commerce. Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp & Raw Materials Group, API.

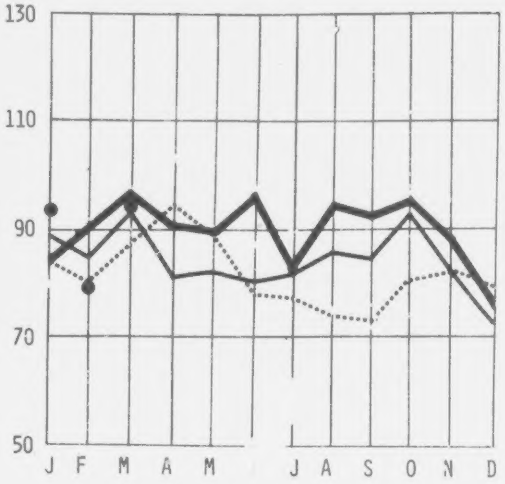
FIBROUS RAW MATERIALS
(Thousands of tons)

CONSUMPTION AT PAPER & BD. MILLS					R	P		
Total	65893	67709	5462	4746	5215	5348	63383	-5.5
Total Wood Pulp (2) A	50364	51674	4188	3594	3850	4083	48197	-5.5
Market Wood Pulp C, E	4789	5138	403	389	385	385	4620	-4.9
Waste Paper (3) A	14922	15409	1225	1108	1218	1221	14834	-5.2
Rags, Straw & Other C, E	607	626	48	44	47	45	552	-17.1
INVENTORIES								
Wood Pulp at Pulp Mills A	117	188	214	188	194	195	195	31.1
Market Pulp at Pulp Mills A	239	389	466	389	413	408	408	37.7
Mkt Pulp at Ppr.& Bd. Mills CE	449	454	443	454	470	470	470	-1.1
Waste Ppr.at Ppr.&Bd. Mills (4)	1110	1338	1265	1338	1249	1231	1231	10.8
Rags, Straw and Other at Paper and Board Mills C, E	71	43	43	43	65	65	65	1.6
Mkt Wood Pulp Days of Supply A	45	54	62	54	65	58	58	18.6
Wood Pulp Consumption at at Non-Paper Mills C, E	825	784	62	60	60	60	720	-7.3

A - Pulp & Raw Materials Group, API; C - Bureau of the Census; E - Most Recent 2 Months Estimated by API
P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons
(2) Excl. cons. of defib. & expl. pulp for hard pressed bd.(000 tons): 1979 - 1536; 1980 - 1376; 1981 - 1211
(3) Census Waste Paper Consumption, (000 tons): 1979 - 13,012; 1980 - 12,583; 1981 - 13,377
(4) Census data prior to 1979; more recent data are from the Paper Stock Conservation Committee, A.P.I.

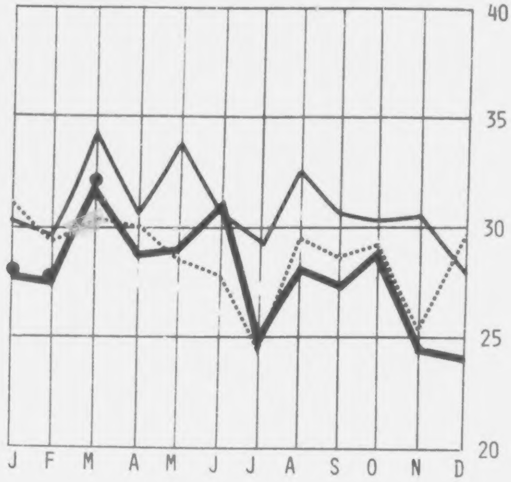
THOUSANDS OF TONS

BLEACHED BRISTOLS
PRODUCTION

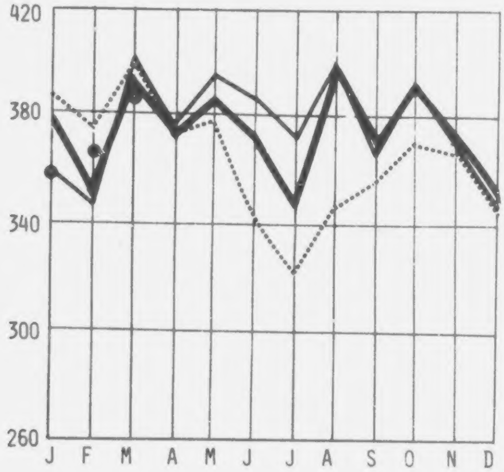


THIN PAPERS
PRODUCTION

THOUSANDS OF TONS

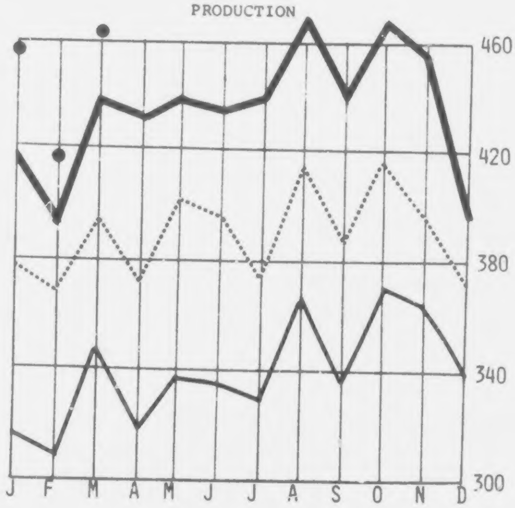


TISSUE PAPER
PRODUCTION

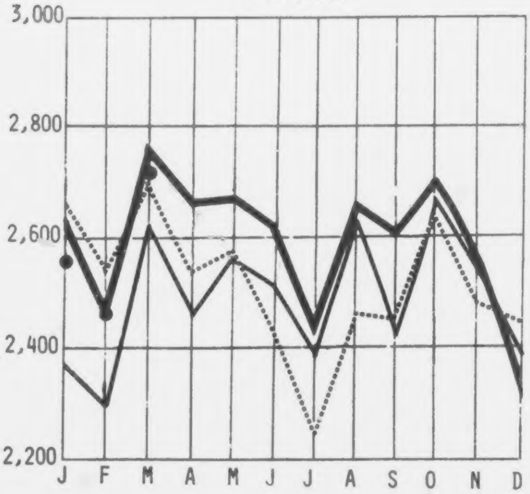


NEWSPRINT

PRODUCTION

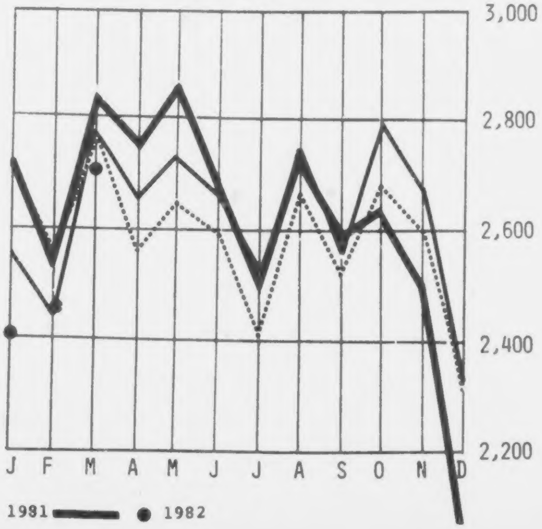


TOTAL PAPER
PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1979 ——— 1980 ········ 1981 ▬▬▬ ● 1982

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FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic foot) Cords)

	YEAR		NOV.	DEC.	JAN.	FEB.	Annual Rate Y-T-D	% Change From same Period
	1980	1981	1981	1981	1982	1982	1982	Last Year
PULPWOOD								
Total U.S. - Total Receipts	81805	78547	6258	5972	5906	6229	72810	-8.1
- Total Consumpt.	80522	79604	6459	5658	6396	6509	77430	-2.1
- Residues *	29402	30590	2316	2247	2169	2265	26604	-12.3
- Inventories	6285	6045	5600	6045	5571	5343	5343	-14.0
So. Atlantic - Total Receipts	26742	24681	1964	1845	1767	1947	22284	-10.4
- Total Consumpt	26691	24815	1970	1774	2016	1964	23880	-5.2
- Residues *	8776	8770	688	646	603	650	7518	-15.7
- Inventories	1158	1051	962	1051	809	790	790	-28.5
Northeast - Total Receipts	7710	7803	585	640	638	666	7824	5.8
- Total Consumpt	7487	7712	615	561	622	624	7476	1.0
- Residues *	1648	1362	107	101	99	113	1272	-5.4
- Inventories	724	635	555	635	645	696	696	-2.4
South Central - Total Receipts	27509	27744	2271	2104	1943	2090	24198	-10.8
- Total Consumpt	27074	27687	2276	1934	2122	2275	26382	-2.4
- Residues *	8001	8923	641	611	587	657	7464	-17.0
- Inventories	1830	1825	1581	1825	1639	1475	1475	-14.4
North Central - Total Receipts	5514	5650	445	505	486	516	6012	-5.8
- Total Consumpt	5292	5708	488	445	447	464	5466	0.3
- Residues *	1361	1438	128	114	98	99	1182	-8.4
- Inventories	1210	1106	1058	1106	1134	1176	1176	-13.5
West - Total Receipts	14330	13669	983	878	1072	1010	12492	-7.8
- Total Consumpt	13978	13682	1110	944	1189	1182	14226	1.8
- Residues *	9615	10096	752	775	782	746	9168	-6.2
- Inventories	1363	1428	1444	1428	1344	1206	1206	-7.8

* - Consumption of Residues in Cord Equivalents.
SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

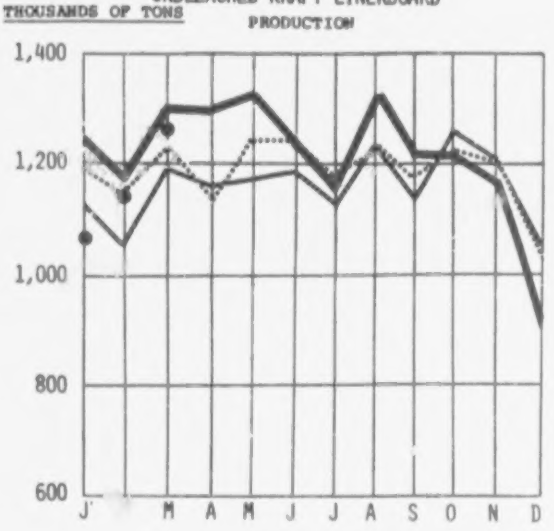
	YEAR 1981		JAN. 1982		FEB. 1982		Annual Rate Y-T-D	% Change From same Period
	Tons	$000	Tons	$000	Tons	$000	1982	Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	168317	9876	9121	405	12960	574	132486	-50.8
Pulpwood Chips	1684950	51394	142588	3938	136110	4450	1672188	-13.6
Wood Pulp, Total	3800713	1648868	250463	112176	279316	125101	3178674	-22.8
Waste Fibrous Materials, Total	111966	19844	6778	1053	11381	2031	108953	21.2
Paper,Paperboard&Products,Total	8037877	3282788	649945	282042	594573	258187	7467109	-7.9
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd. *	8001585	3219080	646446	276348	591554	252809	7427998	-8.1
Paper, Total	7509823	3112917	630054	272108	572634	247972	7216123	-4.5
Newsprint	6935975	2807549	581258	245718	524236	222945	6632964	-5.4
Printing,Writing & Rel.Pap.	482408	242844	44281	23528	43913	21971	529158	23.0
Pack. & Ind. Conv. Paper	82414	54433	4125	2549	4032	2673	48945	-54.8
Special Industrial Paper	2279	3639	86	139	96	158	1087	-25.3
Tissue Paper	6748	4452	304	173	357	225	3968	8.1
Paperboard, Total	129597	33510	5556	1481	7315	2060	77224	-44.6
Wet Machine Board	1064	573	85	48	54	31	832	51.0
Construction Paper and Bd. *	361101	72080	10752	2711	11552	2746	133820	-65.7
Convtd Paper&Paperbd Products	36282	63708	3499	5694	3020	5378	39110	70.4

EXPORTS TO CANADA

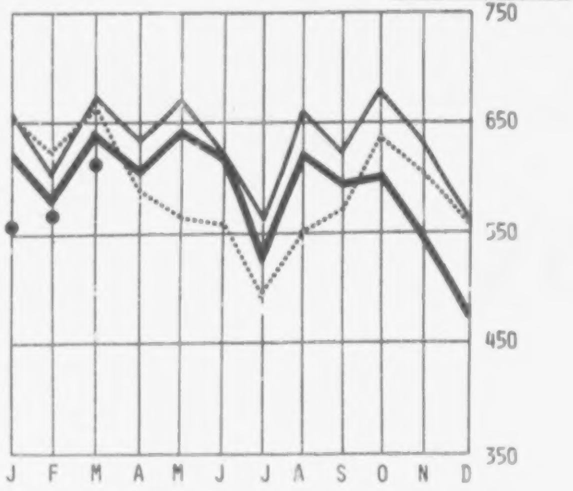
Pulpwood, Roundwood (in cords of 128 cubic feet)	185312	10444	6370	327	6858	344	79368	-45.5
Pulpwood Chips	38471	1525	889	41	3165	202	24324	-54.1
Wood Pulp, Total	118921	56740	9957	4823	12044	6452	132006	-0.8
Cotton Pulp & Other Pulp	5900	3660	626	366	520	371	6876	-10.0
Waste Paper	356523	41185	13328	1627	18398	2588	180344	-45.0
Paper,Paperboard&Products,Total	695992	504904	40468	32348	38986	33952	482723	-32.7
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board *	527486	365270	29662	22907	30403	23301	360384	-37.0
Paper, Total	278136	247806	15716	16298	16860	16195	195457	-34.7
Newsprint	8435	6155	215	185	166	143	2285	-54.4
Printing,Writing & Rel.Pap.	162623	134132	8504	7879	9972	8978	110852	-28.4
Pack. & Ind. Conv. Paper	24385	17449	861	712	1473	1043	14002	-38.3
Special Industrial Paper	75854	84471	5928	7307	4853	5648	84688	-41.8
Tissue	6858	5600	208	205	396	382	3629	-37.7
Paperboard, Total	209686	102235	12290	6086	11923	6458	145274	-37.5
Wet Machine Board	7201	4215	282	182	267	180	3293	-47.8
Construction Pap. & Bd. E *	32464	11014	1374	341	1353	468	16360	-52.1
Convtd Paper&Paperbd Products	168505	138634	10807	9441	9583	10651	122339	-15.5
* - Hard Pressed Board (not in total)								
Imports of Hard Pressed Bd.	23949	6028	829	207	639	162	8808	-72.8
Exports of Hard Pressed Bd.	37484	10315	1075	345	1691	474	16596	-38.7

SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

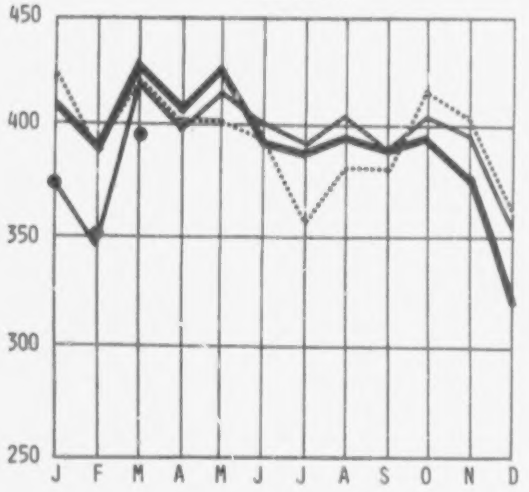
UNBLEACHED KRAFT LINERBOARD
PRODUCTION



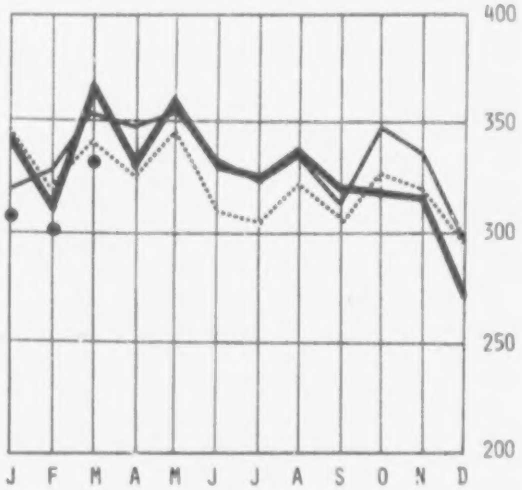
RECYCLED PAPERBOARD



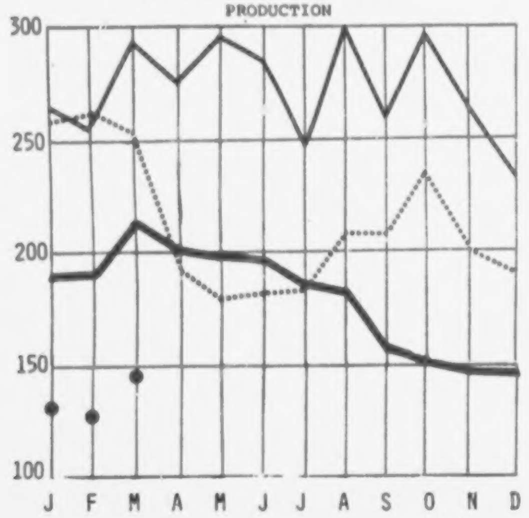
SEMI-CHEMICAL PAPERBOARD
PRODUCTION



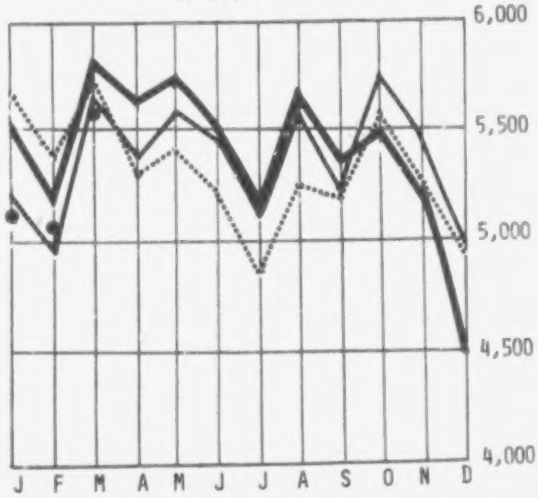
SOLID BLEACHED PAPERBOARD
PRODUCTION



WET MACHINE BOARD AND
BUILDING PAPER AND BOARD
PRODUCTION



TOTAL PAPER AND BOARD
PRODUCTION



1979 ——— 1980 ········· 1981 ━━━ ● 1982

BEST AVAILABLE COPY

PULP, PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 1981 Tons	YEAR 1981 $000	JAN. 1982 Tons	JAN. 1982 $000	FEB. 1982 Tons	FEB. 1982 $000	(1) Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	168331	9876	9121	405	12960	574	132486	-50.8
Pulpwood Chips	1684969	51400	142588	3938	136110	4450	1672188	-13.6
Total All Imports	2551710	5457134	954300	433504	933866	426372	11328994	-11.6
Wood Pulp, Total	4086698	1754318	270285	119308	309609	138051	3479364	-21.1
Waste Paper	70121	11307	5569	789	6654	836	73338	21.3
Other Fibrous Materials	54376	19535	3134	1407	6264	2033	56383	32.3
Paper,Paperbd&Products,Total	8340516	3671974	675313	312000	611339	285452	7719908	-7.0
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	8245075	3362125	667756	289922	604075	259894	7630990	-7.2
Paper, Total	7716263	3247849	648290	284768	582148	254460	7382628	-3.7
Newsprint	6977118	2824777	584582	247278	524449	223026	6854186	-5.2
Printing & Writing	638538	347116	58418	33575	52492	27398	665455	28.5
Uncoated Groundwood	458915	219697	35507	17529	33174	15267	412087	8.1
Uncoated Book	114422	64874	10559	6282	11981	6806	135236	58.8
Coated Print.& Impres. Pap	39321	28765	6423	5056	4209	2893	63786	61.6
Bristols	910	656	4	4	66	72	418	1.0
Writing and Similar Paper	12855	15478	4509	2353	2313	1277	40927	1099.8
Thin (except Cigarette)	12015	17647	1417	2351	750	1083	13001	57.8
Total Pkg & Other Paper	93566	71127	4792	3483	4822	3780	57686	-52.3
Unbleached Kraft Paper	32532	14872	2934	1503	1822	821	28535	-43.3
Other Pkg. & Indust. Paper	61034	56254	1858	1980	3001	2959	29150	-58.7
Tissue	7040	4830	499	432	385	257	5302	42.1
Paperboard, Total	130633	34754	5668	1764	7404	2144	78435	-44.1
Test or Containerboard	48169	12072	907	208	1652	382	15355	-75.9
Semi-Chemical Corrugating	52468	11695	2607	536	2420	491	30157	-37.2
Other Paperboard	29997	10987	2155	1019	3333	1271	32924	15.3
Wet Machine Board	1684	1185	122	85	146	124	1610	31.8
Construction Paper & Bd. *	396496	78337	13676	3306	14377	3166	168317	-60.1
Building Paper	355284	65926	11278	2274	12330	2426	141647	-62.3
Insulating Board	25399	7381	1485	638	1345	454	16981	-25.4
Other Building Board	15813	5031	913	393	702	285	9690	-58.8
Convtd Paper&Paperbd Products	95440	309849	7556	22079	7263	25559	88918	21.6
Paper Products, Total	87414	293726	6821	20559	6247	23419	78406	21.6
Paperboard Products, Total	8027	16123	736	1520	1016	2140	10512	21.7
Notes								
Other: No Weight Avail. ($000)		125935		10126		7061	103123	-44.8
Total Imports Incl. Other($000)		5583069		443631		433433	5262384	-4.6

EXPORTS

	YEAR 1981 Tons	YEAR 1981 $000	JAN. 1982 Tons	JAN. 1982 $000	FEB. 1982 Tons	FEB. 1982 $000	(1) Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cu. ft.)	188598	10555	6370	327	6858	344	79368	-45.3
Pulpwood Chips	3846049	314037	300568	25158	249065	18738	3297798	-15.5
Total All Exports	10663148	4905814	704494	328198	797950	363755	9014664	-12.0
Wood Pulp,Total	3677635	1661311	221224	99367	302578	132611	3142812	-8.2
Cotton Pulp and Other Pulp.	131910	85195	8193	5547	9780	6635	107838	-5.9
Waste and Old Paper	2212549	268526	166301	17986	163095	19334	1976376	-12.5
Paper, Paperbd&Products, Total	4641054	2890782	308776	205299	322487	205175	3787638	-14.9
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	4033988	2079937	264611	141992	285603	145208	3301284	-13.7
Paper, Total	1006409	846775	75427	63426	79240	83283	927999	-8.0
Newsprint	270460	139702	29223	15216	26501	12440	334341	56.4
Printing & Writing	383317	354608	19272	20408	23359	23465	255782	-32.1
Uncoated Groundwood	119673	91966	5393	4884	6502	5837	71368	-22.9
Clay Coated Paper	88597	78328	4567	4272	7452	8154	72113	-24.1
Uncoated Free Sheet	116752	119591	5467	6124	5992	6578	68757	-47.0
Other Printing & Writing	58295	64723	3845	5129	3413	4886	43544	-26.8
Total Pkg. & Other Paper	302887	304623	24511	25147	27468	25033	311881	-6.5
Unbleached Kraft	110801	50980	4804	2527	10739	4480	93256	-26.4
Other Pkg. & Indust. Paper	192086	253643	19708	22620	16730	20543	218625	5.8
Tissue	51745	47842	2421	2654	1912	2355	25885	-89.5
Paperboard, Total	2845835	1195528	184426	76372	200852	78828	2311670	-15.6
Solid Wood Pulp	2772413	1110744	173974	71198	190686	73766	2187958	-11.9
Total Linerboard	1973487	660285	119050	38953	126202	38263	1471512	-19.2
Bleached Kraft Linerboard	151979	52546	4480	1921	4584	1685	54382	-74.3
Unbleached Kraft Linerbd	1821508	607739	114570	37032	121818	37578	1417130	-11.9
Other Unbleached Kraft	148855	63341	11599	5312	19218	7292	184903	19.7
Other Bleached Kraft	584250	367530	39361	25917	37643	25058	462027	5.0
Semi-Chemical Corrugating	65821	19588	3964	1017	7622	2153	68515	3.7
Recycled Paperboard	173522	84784	10452	5174	10166	5082	123712	-51.5
Wet Machine Board	10812	7039	754	445	742	583	8977	-23.6
Construction Paper & Bd. *	68832	30595	4004	1750	4788	2505	52638	-21.2
Building Paper	22691	12364	2101	1010	1196	705	18783	-7.3
Insulating Board E	46141	18231	1903	739	3573	1800	32855	-27.7
Convtd Paper&Paperbd Products	607066	810845	44165	63307	36884	59867	486354	-22.5
Paper Products, Total	362337	580602	24550	45490	22711	45315	283585	-13.4
Paperboard Products, Total	244729	230243	19615	17817	14183	14552	202788	-32.5
Notes								
Other: No Weight Avail. ($000)		11235		876		789	9990	92.1
Total Exports Incl. Other($000)		4917049		329074		364544	4161708	-8.4

* Hard Pressed Board (not in total)								
Imports of Hard Pressed Board	189466	42080	8599	1834	7810	1616	104454	-37.0
Exports of Hard Pressed Board	61046	19111	2633	912	2580	803	31278	-15.1

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PAPER AND PAPERBOARD PRODUCTION

CENSUS DATA

(Thousands of Tons)

	YEAR 1979	YEAR 1980	SEPT 1981	OCT. 1981	NOV. 1981	DEC. 1981	Annual Rate Y-T-D 1981	% Change From same Period Last Year
PAPER					R	P		
Newsprint	3778	4660	439	487	449	397	5273	13.2
Uncoated Groundwood Papers	1800	1538	114	127	114	107	1451	-5.7
Coated Papers	4380	4751	425	428	402	403	4877	4.8
Uncoated Free Sheet (1)	7855	8008	659	667	628	583	7808	-2.5
Cotton Fiber Paper (1)	130	131	9	10	11	10	118	-9.2
Thin Papers	371	333	27	29	28	25	336	0.9
Bleached Bristols	957	941	82	80	85	71	974	3.5
Tissue Paper	4601	4474	364	407	364	344	4507	0.7
Unbleached Kraft Packaging & Industrial Conv. Papers(1)	3911	3718	302	301	292	248	3620	-2.6
Other Paper (1)	1787	1609	133	140	132	121	1609	0.0
TOTAL PAPER GRADES	29580	30164	2557	2677	2500	2309	30674	1.7
PAPERBOARD								
Solid Wood Pulp Furnish	23565	23902	2059	1993	1932	1648	24184	1.2
Unbleached Kraft Linerboard	13857	14249	1255	1193	1175	942	14466	1.5
Other Unbl. Kraft Paperboard	1046	1036	82	79	80	66	1058	2.1
Bleached Kraft Paperboard	4065	4034	340	335	317	305	4059	0.6
Semi-Chemical Paperboard	4617	4583	382	386	360	316	4802	0.4
Recycled Paperboard	7583	7242	629	636	565	529	7382	1.9
TOTAL PAPERBOARD GRADES	31168	31143	2688	2629	2497	2177	31566	1.4
WET MACHINE BOARD	144	138	14	14	9	9	151	9.6
CONSTR. PAPER & INSUL. BOARD	3131	2420	141	137	136	102	1964	-18.9
TOTAL ALL GRADES [Excl. H.P.B.]*	64023	63865	5399	5456	5142	4598	64355	0.8

PRODUCER PRICE INDEXES

1967 = 100

	1980	1981	DEC.	JAN.	FEB.	MARCH		
Pulp, Paper and Products except Building Grades	250.6	270.9	276.2	276.1	277.0	277.3	276.8	4.8
Pulp Paper & Products, ex. Building Grades & ex Waste Paper #	251.3	272.5	278.5	278.5	279.5	279.8	279.3	5.2
Total Wood Pulp	380.3	397.4	417.0	412.8	412.8	414.1	413.2	5.9
Total Paper	258.8	279.9	287.5	288.8	289.5	288.5	289.3	6.0
Total Paper, exc. Newsprint	249.3	271.1	279.1	281.3	282.1	281.6	281.7	7.0
Newsprint	279.7	307.5	316.8	316.8	316.8	318.1	317.2	5.1
Total Paperboard	234.6	258.1	259.3	259.7	261.4	261.1	260.7	3.1
Total Paper and Paperboard #	249.9	273.1	278.7	279.7	280.7	280.3	280.3	5.2
Converted Products	238.5	258.9	263.9	263.9	264.9	265.5	264.8	5.3
Waste Paper	208.7	175.7	143.4	135.2	126.8	129.2	131.1	-30.1
All Commodities	268.8	293.4	295.9	298.2	298.5	297.8	298.2	3.7
Industrial Commodities	274.8	304.1	310.1	311.7	311.4	311.0	311.4	5.4

* See page 3 for Hard Pressed Board data. # Computed by API P-Preliminary R-Revised

SOURCES:. Production - Bureau of Census, U.S. Department of Commerce
Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor

Continued from Page 2

Technical Note: The upper table on page 10 presents the monthly data on paper and paperboard production reported by the Bureau of Census for the last four months of 1981, together with the year totals for 1979-1981. The December 1981 data mark the final report by the Bureau of Census on monthly data on paper and paperboard production. As a result, this table will be deleted in the May report. Similarly, the data shown on page 3 for wet machine board, construction paper and insulating board for December 1981 represent the last monthly figures that will be reported by the Department of Commerce. The data shown for January, February and March represent estimates made by the American Paper Institute to maintain consistency with the previously reported totals. However, in the May report these totals will be deleted and the table will only show data on total paper plus total paperboard production, which are compiled by the American Paper Institute. The figures for 1981 for "other" paper production, which includes the total of production of bleached kraft papers, specialty packaging papers, and special industrial papers will be revised to reflect information now available from the Divisions of the American Paper Institute. We will continue to report the monthly combined total production of these three grades.

Sales and Earnings

The Federal Trade Commission recently made available data on sales and earnings of paper and allied products companies in 1981. The FTC informed us that it has revised the data for the fourth quarter of 1980 and all of 1981 on the basis of new information derived from the Internal Revenue Service. This newly available information led them to re-benchmark their estimates to a somewhat higher level than previously reported.

The FTC reported that for 1981 as a whole, net sales of paper and allied products companies amounted to $62.5 billion or about 11% over the revised 1980 figure. (API restructured 1980 data on the basis of information supplied by the FTC.)

Net income after taxes in 1981 amounted to $3.1 billion, indicating a sales margin of 5%. Earnings also showed a gain of 11% over the year-ago level. However, a significant part of the gain in earnings reflected the effect of gains realized on the sale of property and from other non-operating income. Earnings estimates adjusted for such non-operating income indicated a decline in operating earnings of about 5% from 1980 to 1981. (This estimate is based on an analysis of data reported by companies accounting for about 70% of the industry's 1981 sales volume.)

Continued on Page 12

Continued from Page 11

Many of the large companies in the paper and allied products industry however, are also major producers of wood products. With the demand for wood products in 1981 at very low levels because of low housing construction, profits of the wood products industry fell to low levels. If the low profit performance of wood products were removed, profits from paper operations in 1981 would probably be shown to be well above the 1980 level.

Preliminary data are available on the sales and profit trends in the first quarter of 1982. On the basis of information reported by 32 companies, accounting for about 70% of the industry's total sales, net sales of paper and allied products companies declined by 6.8% from the first quarter of 1981 to the first quarter of 1982.

Net income after taxes from these companies fell by 50%, indicating a decline in the average sales margin from 5.1% to 2.8%. A review of the individual company data indicated that the largest declines in earnings continued to reflect the profits of those companies involved in the wood products industries.

Technical Note: The lower panel of page 10 shows data on the prices of paper and allied products as reported by the Bureau of Labor Statistics. Effective with 1981, the BLS had expanded its coverage of the paper and allied products price index to include data on prices of printed matter. These printing industry prices moved up considerably faster than the prices of pulp, paper and allied products alone during 1981. BLS also reports a separate price index of pulp, paper and products (excluding building paper and board). The table on page 10 now shows this price index, which is a better representation of the trends of paper and allied products alone. The calculated index excluding waste paper was also revised and will now be based on the pulp, paper and products sub-index.

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

APRIL 26, 1982

	PRODUCTION (000 TONS)					
	March 1982	Feb. 1982	March 1981	Jan -March 1982	- 1981	% Change 82/81
PAPER GRADES	P	R				
Newsprint	466	416	439	1340	1250	7.2
Uncoated Groundwood (s)	127	108	122	345	364	-5.1
Coated Paper (s)	432	389	438	1225	1254	-2.3
Uncoated Free Sheet Paper (s)	671	630	712	1949	1999	-2.5
Thin Paper (c)	32	27	32	87	88	-0.2
Cotton Fiber Paper (s)	11	9	12	31	32	-5.3
Bleached Bristols (s)	95	80	97	269	273	-1.6
Tissue Paper	385	365	395	1105	1125	-1.8
Unbleached Kraft Packaging & Indl. Converting (s)	343	324	362	978	1021	-4.2
Other Paper (c)	152	135	141	432	402	7.4
TOTAL PAPER	2714	2484	2749	7760	7808	-0.6
PAPERBOARD GRADES						
Kraft Linerboard, Unbleached	1272	1140	1306	3486	3716	-6.2
Other Kraft Paperboard	100	85	98	282	278	1.4
Semichemical Paperboard	395	351	430	1122	1227	-8.6
Bleached Paperboard	333	302	368	942	1021	-7.7
Recycled Paperboard	615	568	640	1737	1847	-6.0
TOTAL PAPERBOARD	2716	2445	2842	7569	8090	-6.4
CONSTRUCTION & WET MACH GRADES(c)	148	131	215	412	594	-30.6
TOTAL PAPER AND PAPERBOARD	5578	5060	5806	15741	16491	-4.5
HARD PRESSED BD.[not in total](c)	125	111	173	343	495	-30.8

WOOD PULP (ALL GRADES)	Feb. 1982	Jan. 1982	Feb. 1981	Jan - Feb. 1982	- 1981	% Change 82/81
Dissolving & Special Alpha	105	99	115	204	231	-11.6
Bleached Sulphite	103	101	122	204	253	-19.5
Unbleached Sulphite	28	28	32	56	66	-15.2
Bleached & Semi-Bl. Sulph.	1647	1629	1584	3276	3251	0.8
Unbleached Sulphate	1592	1438	1554	3029	3193	-5.1
Semichemical	299	326	324	625	670	-6.7
Groundwood and Thermo-Mechanical	415	441	419	855	862	-0.7
TOTAL PULP DIVISION DATA	4188	4062	4149	8250	8525	-3.2
Defib. Exploded & Scrngs E	142	142	200	284	404	-29.6
TOTAL WOOD PULP PRODUCTION	4330	4204	4350	8534	8929	-4.4

Note: Paperboard cumulative totals include revisions not available monthly.

(s) - Shipments   R - Revised   E - Estimate
P - Preliminary   (c) - Census Data - Production, last 3 months estimated.

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April 30, 1982	Full Year		INDUSTRY DATA 1982			Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1980	1981	January	February	March		
Total Production (API).......| |...	63701	64481	5104	5060	5578	62966	-4.5
Total Seasonally Adjusted....| excluding |...			5170	5319	5171	62643	-4.6
Imports (including Products).|hard pressed|...	8778	8341	675	611	N.A.	7746 e	-9.3
Exports (including Products).| board |...	5214	4641	309	323	N.A.	3925 e	-18.8
Apparent Consumption.........| |... E	67265 a	68180 b	5337	5608	5471	66464 Ec	-4.2
Paper Production % Tonnage Capacity...........	92.4 g	92.2 g	86.1	91.0	89.4	89.7 gh	-
Paperboard Production % Tonnage Capacity......	91.8 g	91.5 g	80.4	88.6	88.3	85.7 g	-
			December	January	February		
MARKET WOOD PULP PRODUCTION - Tons (000)........	6488	6190	419	425	533	5743	-6.2
TOTAL WOOD PULP PRODUCTION - Tons (000)..(f)....	50737	51985	3590	4062	4188	49498	-3.2
WOOD PULP IMPORTS - TONS (000)..................	4051	4087	269	270	310	3479	-21.1
WOOD PULP EXPORTS - TONS (000)..................	3806	3678	315	221	303	3143	-8.2
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS			December	January	February		
Wood Pulp..(K)..............................	50364	51674	3594	3950	4083	48197	-5.5
Waste Paper....(d)..........................	14922	15409	1108	1218	1221	14634	-5.2
Other (Census)..............................E	607	626	44	47	45	552	-17.1
Total................	65893	67709	4746	5215	5349	63383	-5.3
..WOOD PULP - NON PAPER........................E	825	784	60	60	60	720	-7.3
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	80522	79604	5658	6396	6509	77430	-2.1
EMPLOYMENT (000)			January	February	March		
Paper and Allied Products..........Total......	694.0	692.3	674.9	670.8	667.4	671.0	-2.5
Pulp, Paper and Board Mills........Total.....E	269.0	268.4	261.5	259.4	258.1	259.7	-2.7
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products......................	7.84	8.60	9.07	9.00	9.04	9.04	9.1
Pulp, Paper Mills............................E	9.15	10.05	10.50	10.48	10.52	10.50	9.1
Paperboard Mills.............................E	9.28	10.23	10.77	10.68	10.75	10.73	9.2
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1981 Q3	1981 Q4	1982 Q1		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	6.80	6.72	7.01	6.56	6.17	6.17	-11.0
INDEX OF OUTPUT PER MAN-HOUR (1977=100)..........			January	February	March		
|IN PULP, PAPER |...Production Worke...........	107.8	108.1	108.0	113.4	110.3	110.6	-0.3
|AND BOARD MILLS|...All Employees..............	106.3	107.0	106.5	111.6	108.6	108.9	-0.6
PAPER AND ALLIED PRODUCTS (Million $)			December	January	February		
Industry Shipments (Dept. of Commerce)*.......	71736	77784	6553	6500	6501	78006	1.1
Pulp, Paper and Paperboard*.................	31952	34181	2819	2797	2886	34098	1.7
Inventories (End of Period) - Total Industry*.	7798	8817	8817	8738	8844	8844	7.4
Pulp, Paper and Paperboard*.................	2794	3301	3301	3327	3358	3358	12.0
			1981 Q3	1981 Q4	1982 Q1		
Sales (Corporations Only, FTC)................ RS	56250 e	62502	16024	15356	N.A.	N.A.	N.A.
Earnings (Corporations Only, FTC)............. RS	2800 e	3108	634	829	N.A.	N.A.	N.A.
Depreciation (Corporations Only, FTC)......... RS	2026 e	2253	584	555	N.A.	N.A.	N.A.
Net Worth (Corporations Only, FTC)............ RS	24396	26452	26008	26452	N.A.	N.A.	N.A.
PRICE INDEXES (Bureau of Labor Stats)1967=100			January	February	March		
Pulp, Paper & Products, ex. Building Grades...	250.6	270.9	276.1	277.0	277.3	276.8	4.8
Wood Pulp.....................................	380.3	397.4	412.8	412.8	414.1	413.2	5.9
Waste Paper...................................	208.7	175.7	135.2	128.8	129.2	131.1	-30.1
Paper...	256.8	279.9	288.8	289.5	289.5	289.3	6.0
Paperboard....................................	234.6	258.1	259.7	261.4	261.1	260.7	3.1
PAPER DEMAND (INDEXED: 1967=100)			January	February	March		
Total Paper Production *......................	143.9	148.3	148.0	148.6	144.1	146.9	-0.6
Paper New Supply *............................	136.1	137.7	138.2	135.6	133.8	135.9	-1.3
Total End - Use Index *.....................	146.3	150.3	149.7	150.6	150.3	150.2	0.1
Production of Nondurable Goods *...(19%)..	161.2	164.7	154.7	156.4	155.6	155.6	-6.1
Disposable Income (Constant $) *...(23%)..	151.0	154.3	155.7	156.5	157.4	156.5	2.2
Total Printing and Publishing *...(58%)..	139.5	144.0	145.7	146.4	145.8	146.0	1.5
Trend Factor	----------	----------	----------	--Not Available--	----------	----------	----------
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *.................	135.4	137.5	126.6	135.8	132.5	132.3	-6.5
Production for Domestic Use	128.3	133.7	125.8	131.5	126.7	128.0	-7.2
Total End - Use Index *.....................	146.1	149.3	139.3	141.2	140.4	140.3	-6.4
Production of Consumer Goods *...(60.49%)	145.4	147.8	139.7	141.8	141.4	141.0	-4.5
Production of Equipment *...(6.62%)	145.2	151.8	147.1	148.4	147.4	147.6	-1.1
Production of Materials *...(32.89%)	147.6	151.5	137.0	138.6	137.1	137.6	-10.8
Trend Factor	----------	----------	----------	--Not Available--	----------	----------	----------
NEWSPRINT MARKETS			December	January	February		
Consumption by Publishers - Tons (000)........	11121	11205	983	873	858	10384	1.8
Newspaper Pub. and Printing Empl. Total(000)..	422.8	432.0	441.2	435.9	437.6	436.8	2.6
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)..........	118372	121894	10046	8143	8878	102129	2.6
WHOLESALERS SALES AND INVENTORIES (Million $)(j)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales R	21296	24381	2000	1558	1930	23328	2.6
Inventories (End of Period) R	1849	2095	2095	2110	2130	2130	11.9
Paper Only...........................Sales R	15643	17631	1426	1379	1360	16434	1.0
Inventories (End of Period) R	1227	1383	1383	1386	1419	1419	15.5
RETAIL TRADE (Million $)			January	February	March		
Total Retail Sales *..........................	953984	1044587	85320	87574	87164	1040232	0.1
Nondurable Goods Stores Sales *...............	656231	716262	60004	60821	60171	723984	2.8
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	147.0	150.9	140.6	142.3	141.2	141.4	-6.9
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	268.8	293.4	298.2	298.5	297.9	298.2	3.7
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	246.8	272.3	282.5	283.4	283.1	283.0	7.6
			December	January	February		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	313.5	333.4	333.4	330.1	327.4	327.4	5.8
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$).			1981 Q3	1981 Q4	1982 Q1		
G.N.P. or Expenditure - Current $.............	2626.1	2925.5	2965.0	2998.3	2995.1	2995.1	5.0
G.N.P. OR Expenditure - 1972 $................	1480.7	1510.3	1515.8	1498.4	1483.6	1483.6	-2.2

lb/capita	Popul.(mil)
.a - 591	227.7
.b - 594	229.7
.c - 575	231.1

.d - 1979 - 13012; 1980 - 12583
, 1981 - 13,377 (000T-Census)
.e - Estimated by A.P.I.
.E - Last month estimated by API

f - Wood Pulp Production excludes estimates for def. expl. & scrngs. Prod. was: 1979 - 3,080; 1980 - 2625; 1981 2350 (000 tns)
g - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
k - Excludes consumption of defib. & expl. pulp for hard p. bd.: '80 - 1,376; '81 - 1,211 (000 tons)
j - Census unpublished data; standard dev. = 6-8%

N.A. - Not Available
P - Preliminary
q - Quarter
R - Revised
RS - Revised Series
y - Full year estimated by U.S. Dept. of Commerce
* - Seasonally adjusted

A2500-2 6/9/82

Paper Paperboard & Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 60 - No. 5 MAY, 1982

Production Moves Downward

Production of paper plus paperboard in April moved down to a seasonally adjusted trend position of 59.6 million tons per year. (The trend position is measured by the two-month average of the seasonally adjusted data.) This decline reversed the rising trend of production evident in February and March and brought the production rate to a level 1.5% above the August 1980 trend position - the low point of the last recession.

Paper production has shown a relatively stronger performance than paperboard. For the first four months of this year, for example, paper production was 2.1% below its year-ago level while paperboard production was down 7.4%. Paperboard production is sensitive to manufacturing activity, which was 7.8% below year-ago levels, according to the manufacturing component of the Index of Industrial Production.

Among the major paper grades, newsprint production continued to buck the trend. For the first four months of 1982 newsprint production was 5.5% over its year-ago level. Part of the production was diverted into inventories of newspaper publishers because consumption of newsprint by U.S. publishers was only up about 1%. Newsprint imports, in the first quarter of 1982 declined 4% from their year-ago level.

Production of tissue paper also continued to run above its year-ago level, with the four month 1982 total about 0.6% above the corresponding 1981 level. Tissue is a consumer grade and thus more sensitive to consumer income and the general level of total economic activity.

Production of printing and writing papers in the first four months of 1982 averaged about 3% below the corresponding year-ago level. Groundwood papers showed the largest declines; uncoated free sheet papers about average; and bleached bristols coated papers were within 2% of their year-ago rate. New orders for groundwood paper were relatively strong in April, bringing un-

Continued on Page 2

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Continued from Page 1

filled orders 6.5% above their year-ago level. New orders for coated papers also held up well and the backlog of coated paper unfilled orders was also above its year-ago level at the end of April 1982. However, new orders for uncoated free sheet papers continued to run below their shipments level and the backlog of unfilled orders at the end of April was 43% below the April 1981 position.

The data reported on page 3 for the production of packaging and other papers have been revised on the basis of information received by the Kraft and Packaging Papers Division of the API. As a result, the 1981 total was revised to 1,678,000 tons, about 4% above the previously reported level. The API data show that shipments of unbleached kraft paper in the first four months of 1982 were down about 8% from their year-ago total, while other paper, which includes specialty packaging and special industrial papers, were down about 7%. With the exception of grocers' sack paper, which accounts for about 40% of the total, the packaging and industrial papers are also affected by trends in the output of manufactured goods.

All the major grades of paperboard were strongly affected by the declines in industrial production, with declines in production ranging from 6.5% in recycled paper to nearly 10% in semichemical paperboard. Unbleached kraft linerboard production, including production for export, was down by 7%, while the exports alone showed a 5% decline. Production for export of semichemical paperboard, while only about 166,000 tons per year, was down 2.4% from its year-ago level. On balance, total paperboard production for export in the first four months of 1982 was down about 6.0%.

On a market basis, the production of containerboard for domestic use showed a 7.7% decline, compared to the 6.6% decline reported for shipments of fiber boxes, as reported by the Fibre Box Association. The Fibre Box Association also reported that inventories of containerboard at box plants rose slightly in April, but still remained about 140,000 tons below the level reached at the beginning of this year. Containerboard inventories at paperboard mills inched upward a fraction of 1% in April, but its level was about 60,000 tons above that of the beginning of 1982.

Production of boxboard for domestic use in the first four months of 1982 was down about 7.5% from its year-ago level. Declines were distributed throughout the grade structure, with folding boxboard down 7.7%, and milk carton and food service 8.2%.

Imports, Exports, New Supply

In this and future reports, the production data will no longer include information on production of wet machine board, construction paper or insula-

Continued on Page 11

PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS

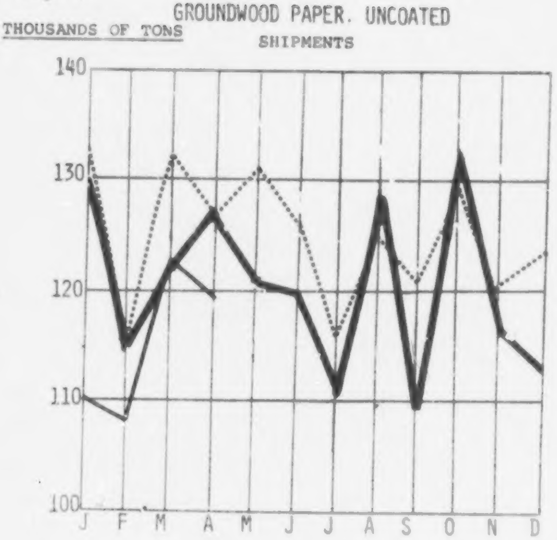
(Thousands of Tons)

	YEAR 1980	YEAR 1981	JAN. 1982	FEB. 1982	MARCH 1982	APRIL 1982	Annual Rate Y-T-D 1982	% Change From same Period Last Year
PAPER					R	P		
Newsprint - Production	4672	5239	458	416	463	437	5320	3.5
- Shipments	4667	5220	448	415	455	413	5192	3.5
Printing & Writing	15605	15805	1294	1243	1405	1261	15611	-3.1
Groundwood Paper - Shipments	1488	1441	110	108	123	119	1381	-6.3
- New Orders	1475	1426	113	112	120	139	1450	-0.1
- Unfilled Orders	110	112	89	98	86	118	118	6.5
Coated Paper - Shipments	4673	4851	404	389	437	388	4885	-1.8
- New Orders	4753	4866	397	411	407	387	4834	0.3
- Unfilled Orders	391	308	343	371	343	343	343	5.8
Unctd Free Sheet - Shipments	7983	7882	648	630	716	625	7859	-3.0
- New Orders	7894	7706	628	612	716	606	7867	-3.9
- Unfilled Orders	546	402	338	330	352	309	308	-42.8
Thin Paper - Shipments	343	336	28	27	32	28	347	-0.3
Cotton Fiber Paper - Shipments	126	119	10	9	11	10	122	-4.0
Bleached Bristols - Production	982	1077	94	80	85	80	1017	-7.0
Tissue Paper - Production	4375	4485	355	365	407	380	4519	0.6
Total Packaging & Other Paper *	5539	5569	439	468	497	414	5452	-7.6
Unbl. Kraft Paper - Shipments	3830	3891	311	324	343	288	3797	-7.6
Other Paper - Production *	1609	1678	128	143	154	126	1655	-7.6
TOTAL PAPER-Production-Unadj.	30191	31097	2546	2492	2771	2492	30902	-2.1
-Production-S.A.			2566	2602	2588	2477	30638	-2.1
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	23881	24231	1852	1894	2084	1913	23228	-7.7
Unbl. Kraft Linerboard (1)	14232	14540	1073	1152	1269	1145	13918	-7.5
Production for Export	2380	1887	132	164	180	153	1884	-5.3
Other Unbl. Kraft Paperboard	1063	1062	97	85	101	81	1083	-2.9
Semichemical Paperboard	4723	4719	375	355	391	370	4472	-9.9
Production for Export	322	155	11	15	14	15	166	-2.4
Solid Bleached Paperboard	3862	3910	307	302	323	316	3745	-7.2
Production for Export	545	557	43	41	50	45	537	-6.1
Recycled Paperboard	7071	7001	548	548	614	562	6819	-6.5
Production for Export	83	24	1	1	1	2	18	-54.8
TOTAL PAPERBOARD-Prod.-Unadj.	30952	31232	2400	2442	2699	2475	30047	-7.4
- Containerboard Prod.(Dom. Use)	18070	19005	1439	1467	1623	1497	18078	-7.7
- Boxboard Prod.(Dom. Use) (2)	5477	5544	442	434	472	444	5376	-7.5
- All Other P'bd Prod.(D.U.) (2)	4075	4060	331	320	358	320	3987	-7.1
- Total Paperbd Prod. for Export	3329	2622	187	221	246	214	2605	-6.0
TOTAL PAPERBOARD PROD. - S.A.			2436	2579	2503	2382	29702	-7.4
TOTAL PAPER AND PAPERBOARD								
Production - actual	61143	62329	4945	4935	5470	4866	60948	-4.8
Production - S.A.			5002	5181	5072	4858	60340	-4.8

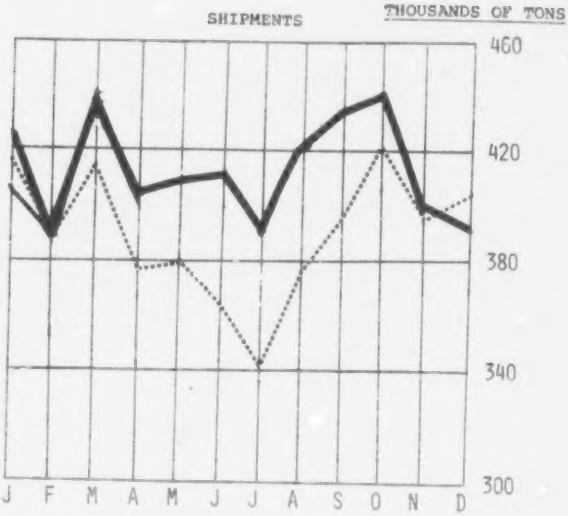
(1)Includes all exports of kraft paperboard.
(2)Data for unbl. kraft folding boxboard incl. in All Other P'bd.
* Revised series based on A.P.I. data, beginning January, 1981.

P Preliminary
R Revised
S.A. Seasonally Adjusted

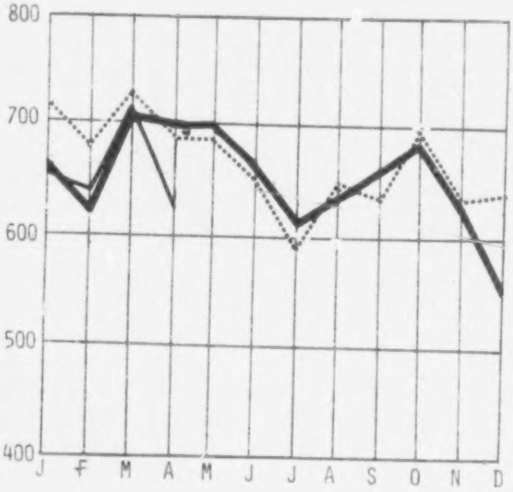
GROUNDWOOD PAPER. UNCOATED
SHIPMENTS



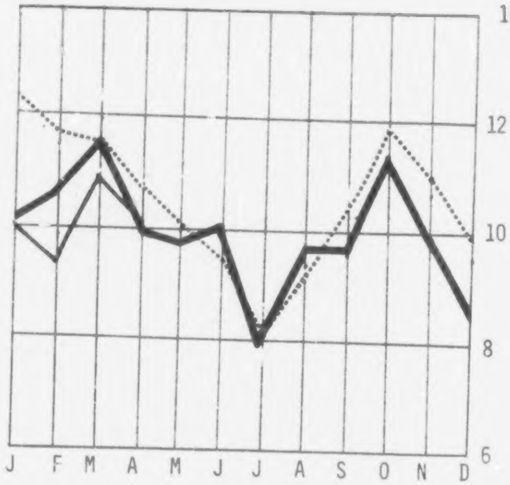
COATED PAPER
SHIPMENTS



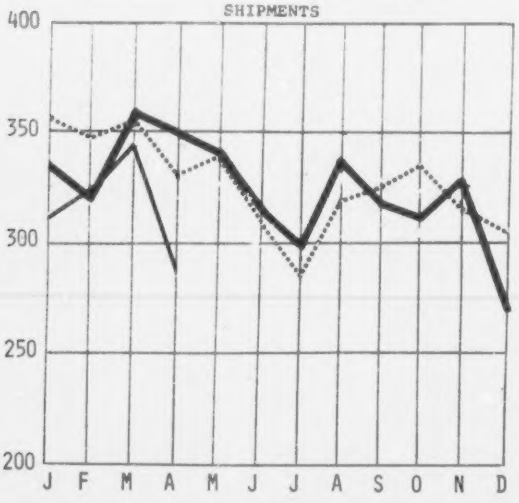
UNCOATED FREE SHEET PAPERS
SHIPMENTS



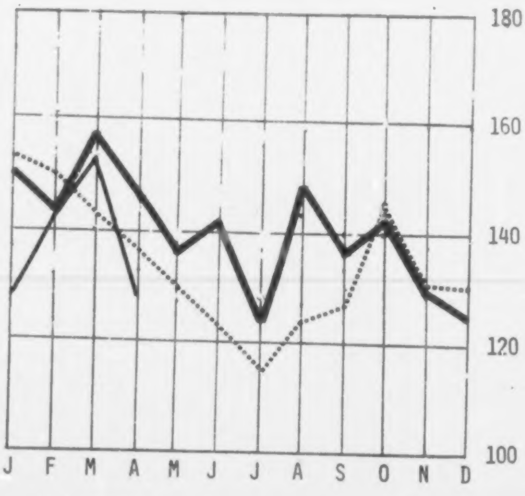
COTTON FIBER PAPER
SHIPMENTS



UNBLEACHED KRAFT PACKAGING
AND INDUSTRIAL CONVERTING PAPER
SHIPMENTS



OTHER PAPER
PRODUCTION



1980 ······ 1981 ▬▬ 1982 ——

WOOD PULP STATISTICS
(Thousands of Tons)

	YEAR 1980	1981	DEC. 1981	JAN. 1982	FEB. 1982	MARCH 1982	Annual Rate Y-T-D 1982	% Change From same Period Last Year
TOTAL WOOD PULP					R	P		
Total Wood Pulp - Production	50737	51965	3590	4066	4198	4597	51444	-2.3
- Imports	4051	4087	269	270	310	296	3505	-20.6
- Exports	3806	3678	315	221	303	319	3372	-9.0
- New Supply	50982	52394	3544	4115	4205	4574	51576	-3.4
Dissolving Pulp - Production	1508	1365	85	99	106	122	1309	-4.2
- Imports	263	249	[illegible]	30	11	11	207	-21.7
- Exports	769	784	85	50	42	62	614	-27.7
- New Supply	1002	830	14	79	75	71	902	15.4
Paper Grades Chemical Pulp - Production	40436	41376	2806	3200	3379	3660	40956	-2.3
- Imports	3615	3655	250	228	287	267	3127	-19.8
- Exports	2956	2870	226	168	260	256	2737	-3.1
- New Supply	41095	42161	2830	3260	3406	3671	41347	-3.8
Groundwood and Thermo-Mech. - Production	4767	5320	420	441	415	464	5278	-0.4
- Imports	173	183	4	12	12	19	171	-32.4
- Exports	81	24	4	3	1	1	22	-31.4
- New Supply	4859	5478	421	450	425	482	5427	-1.7
Semi-Chemical - Production	4026	3924	280	326	299	350	3901	-5.2
- Imports	0	0						
- Exports	0	0	------	Included	with	Groundwood	Pulp ------	
- New Supply	4026	3924	280	326	299	350	3901	-5.2
MARKET WOOD PULP								
Total Market Wood Pulp - Production	6488	6190	419	425	538	536	5994	-4.3
- Imports	2947	2924	233	222	228	201	2606	-13.3
- Exports	3513	3352	339	186	282	305	3091	-6.0
- New Supply	5921	5761	313	461	485	432	5509	-7.8
Dissolving Pulp - Production	1506	1337	85	85	120	122	1306	-3.9
- Imports	235	241	15	25	11	9	177	-36.7
- Exports	876	787	91	48	51	76	699	-10.9
- New Supply	865	791	9	62	79	56	785	-8.2
Paper Grades Chemical Pulp - Production	4913	4852	334	340	419	414	4688	-4.4
- Imports	2687	2634	215	195	215	188	2392	-9.3
- Exports	2588	2555	247	139	230	229	2392	-3.5
- New Supply	5012	4931	302	396	403	373	4688	-7.3
Groundwood Pulp and All Other - Production	68	1	0	0	0	0	0	-50.0
- Imports	26	49	3	3	3	4	37	-58.8
- Exports	50	10	0	0	0	0	0	0.0
- New Supply	44	40	3	3	3	4	37	-41.1

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp & Raw Materials Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

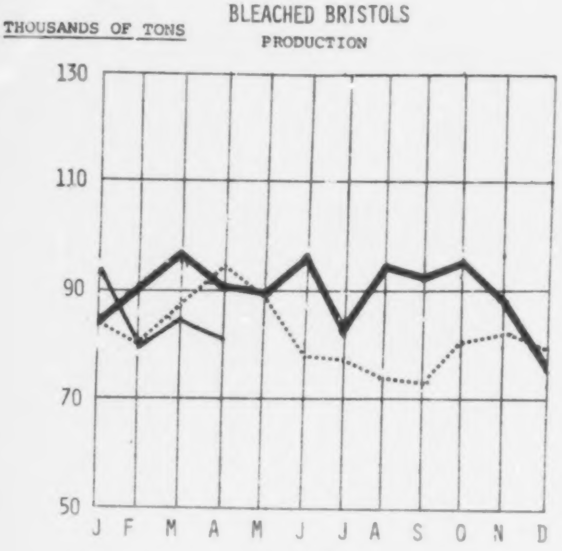
FIBROUS RAW MATERIALS
(Thousands of tons)

CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	63027	64844	4555	5005	5149	6086	64960	-1.7
Total Wood Pulp	49476	50822	3547	3897	4037	4851	51143	-1.3
Waste Paper	13551	14022	1008	1108	1111	1235	13818	-3.3
INVENTORIES								
Total Wood Pulp at Pulp Mills	117	188	188	194	196	202	202	40.4
Market Pulp at Pulp Mills	239	389	389	413	410	403	403	40.0
Waste Paper at Paper &Bd. Mills	1008	1216	1216	1137	1120	1115	1115	8.4

SOURCES: Wood Pulp Data, Pulp & Raw Materials Group, API. Waste Paper Data, Paper Recycling Committee, API
P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

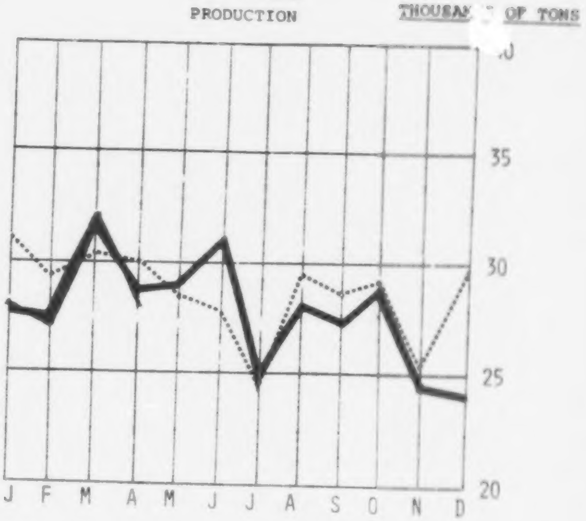
BLEACHED BRISTOLS

PRODUCTION



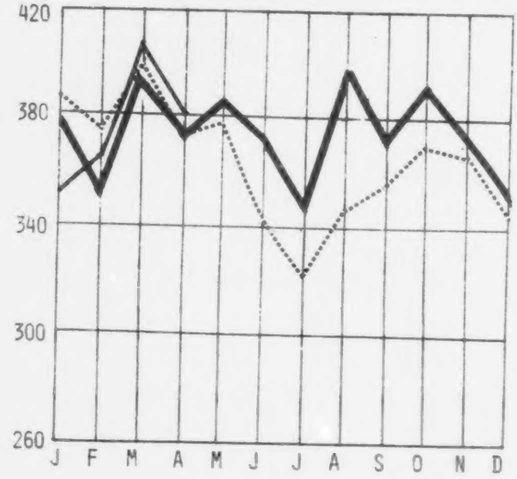
THIN PAPERS

PRODUCTION



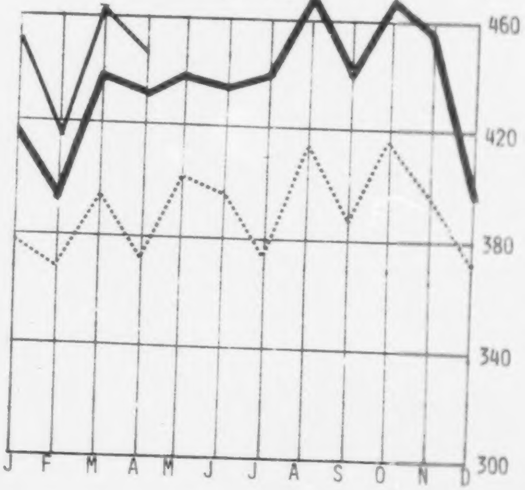
TISSUE PAPER

PRODUCTION



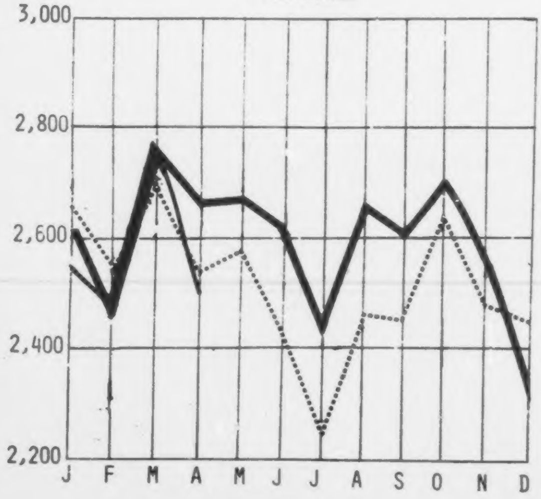
NEWSPRINT

PRODUCTION



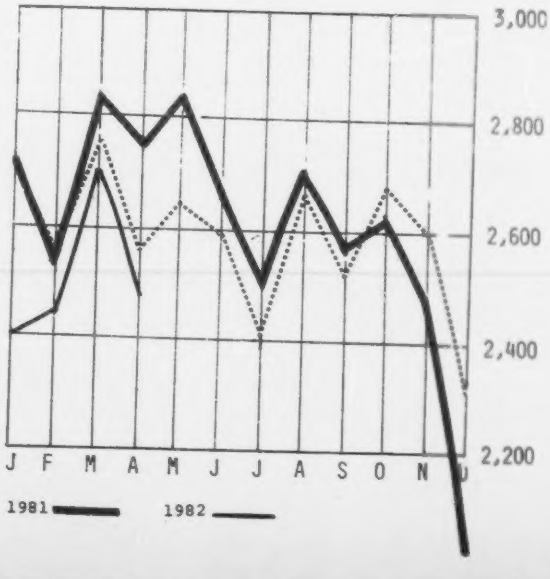
TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1980 .... 1981 ▬ 1982 —

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic foot) Cords)

PULPWOOD		YEAR 1980	YEAR 1981	DEC. 1981	JAN. 1982	FEB. 1982	MARCH 1982	Annual Rate Y-T-D 1982	% Change From same Period Last Year
Total U.S.	- Total Receipts	81805	79547	5972	5806	6229	6989	76536	-4.6
	- Total Consumpt.	80522	79604	5658	6396	6509	7018	79692	-0.8
	- Residues *	29402	30590	2247	2169	2265	2573	28028	-10.2
	- Inventories	6285	6045	6045	5571	5343	5274	5274	-12.2
So. Atlantic	- Total Receipts	26742	24681	1845	1767	1947	2160	23528	-7.7
	- Total Consumpt	26691	24815	1774	2016	1964	2061	24164	-6.8
	- Residues *	8776	8770	646	603	650	763	8064	-11.5
	- Inventories	1158	1051	1051	809	790	863	863	-18.1
Northeast	- Total Receipts	7710	7803	640	638	666	638	7768	1.7
	- Total Consumpt	7487	7712	561	622	624	626	7488	-2.0
	- Residues *	1649	1362	101	99	113	106	1272	-11.2
	- Inventories	724	635	635	645	696	702	702	-1.3
South Central	- Total Receipts	27509	27744	2104	1843	2090	2510	26172	-4.7
	- Total Consumpt	27074	27687	1934	2122	2275	2555	27808	0.6
	- Residues *	8001	8923	611	587	657	744	7952	-13.6
	- Inventories	1830	1825	1825	1639	1475	1432	1432	-12.6
North Central	- Total Receipts	5514	5650	505	486	516	444	5784	-4.2
	- Total Consumpt	5282	5708	445	447	464	506	5668	4.8
	- Residues *	1361	1439	114	98	99	107	1216	-12.1
	- Inventories	1210	1106	1106	1134	1176	1100	1190	-17.5
West	- Total Receipts	14330	13669	878	1072	1010	1239	13284	-2.2
	- Total Consumpt	13978	13682	944	1189	1182	1270	14564	6.1
	- Residues *	9615	10096	775	782	746	853	9524	-5.3
	- Inventories	1363	1428	1428	1344	1206	1177	1177	-7.5

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

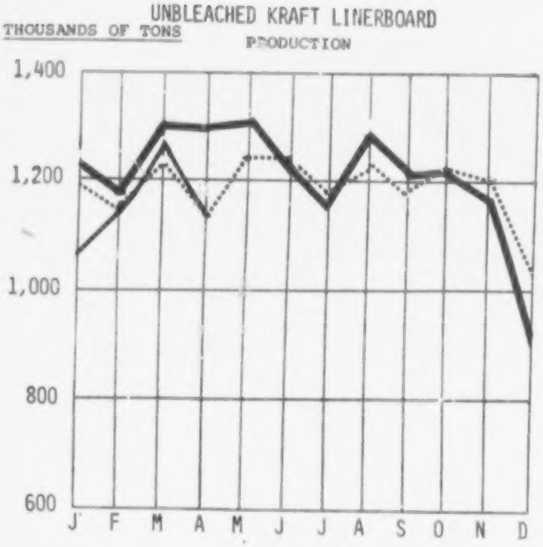
	YEAR 1981 Tons	YEAR 1981 $000	FEB. 1982 Tons	FEB. 1982 $000	MARCH 1982 Tons	MARCH 1982 $000	Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	188317	9876	12960	574	11055	494	132544	-43.8
Pulpwood Chips	1684950	51394	136110	4450	197041	6649	1902956	1.9
Wood Pulp, Total	3800713	1648868	279316	125101	291410	123108	3284756	-20.8
Waste Fibrous Materials, Total	120498	21239	11381	2031	11925	2162	120336	3.3
(Paper, Board & Products, Total)	8037877	3282788	594573	258167	690892	301637	7741640	-6.5
Paper, Paperboard & Products	7675713	3210134	582968	255409	668736	286804	7567250	-3.[illegible]
(Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.)	8001585	3219080	591554	252809	687428	295595	7701711	-6.7
Paper & Paperboard, Only	7639420	3146427	579948	250032	666273	290762	7527322	-4.1
Paper, Total	7509823	3112917	572634	247972	657054	288405	7438966	-3.4
Newsprint	6935975	2807549	524236	222945	602832	258747	6833304	-4.4
Printing, Writing & Rel. Pap.	482408	242844	43913	21971	47024	24467	540869	21.7
Pack. & Ind. Conv. Paper	82414	54433	4032	2673	6628	4684	59141	-42.8
Special Industrial Paper	2279	3639	86	158	123	231	1216	-28.8
Tissue Paper	6748	4452	357	225	447	287	4435	-19.3
Paperboard, Total	129597	33510	7315	2060	9218	2357	88356	-38.7
Wet Machine Board	1064	573	54	31	64	37	809	-14.7
Construction Paper and Bd.	361101	72080	11552	2746	21092	4796	173581	-57.3
Convtd Paper&Paperbd Products	36292	63708	3020	5378	3464	6042	39928	58.1

EXPORTS TO CANADA

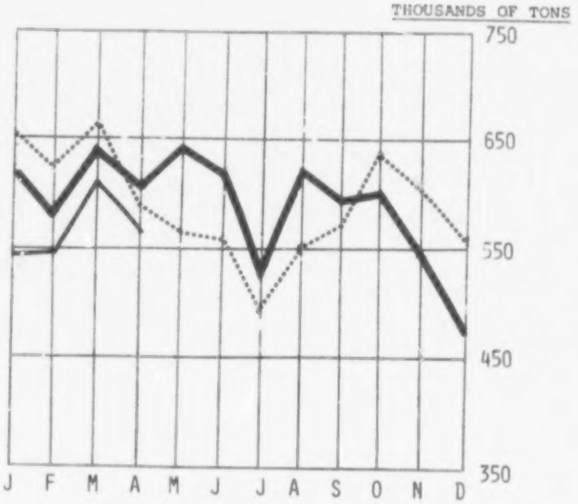
	YEAR 1981 Tons	YEAR 1981 $000	FEB. 1982 Tons	FEB. 1982 $000	MARCH 1982 Tons	MARCH 1982 $000	Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	185312	10444	6850	344	3711	178	67756	-44.2
Pulpwood Chips	38471	1525	3165	202	2973	182	28108	-45.1
Wood Pulp, Total	118921	56740	12044	6452	9154	4662	124620	-6.4
Cotton Pulp & Other Pulp	5900	3660	520	371	560	390	6824	-20.8
Waste Paper	356523	41185	18396	2588	25932	2988	230624	-36.[illegible]
(Paper, Board & Products, Total)	695992	504904	39986	33952	50322	39197	523105	-31.5
Paper, Paperboard & Products	656327	489675	38366	33303	48312	38374	501961	-28.7
(Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board)	527486	365270	30403	23301	36765	27561	387315	-35.5
Paper & Paperboard, Only	487822	350041	28782	22652	34754	26739	366171	-33.5
Paper, Total	278136	247806	16860	16195	19254	18232	207319	-34.1
Newsprint	8435	6155	166	143	347	271	2910	-45.8
Printing, Writing & Rel. Pap.	162623	134132	9972	8978	11261	9350	118944	-32.6
Pack. & Ind. Conv. Paper	24365	17449	1473	1043	1680	1064	16054	-41.8
Special Industrial Paper	75854	84471	4853	5649	5589	7164	65482	-33.4
Tissue	6858	5600	396	382	378	383	3930	-42.7
Paperboard, Total	209686	102235	11923	6458	15501	8506	158852	-32.8
Wet Machine Board	7201	4215	267	180	336	186	3539	-41.8
Construction Pap. & Bd. E	32464	11014	1353	468	1675	637	17605	-59.8
Convtd Paper&Paperbd Products	168505	139634	9583	10651	13558	11636	135790	-16.8

SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

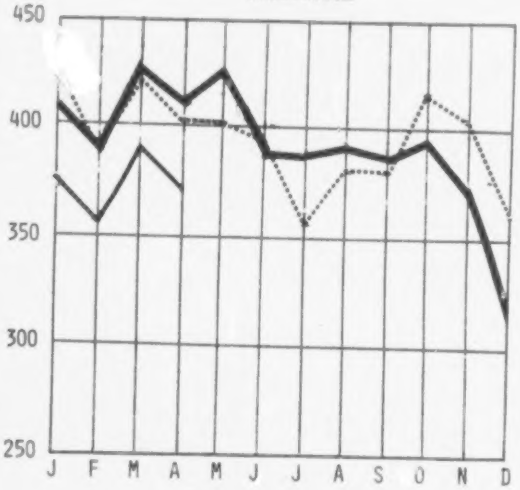
UNBLEACHED KRAFT LINERBOARD
PRODUCTION



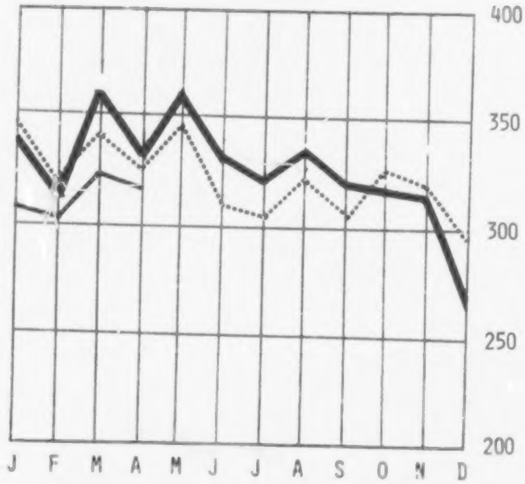
RECYCLED PAPERBOARD



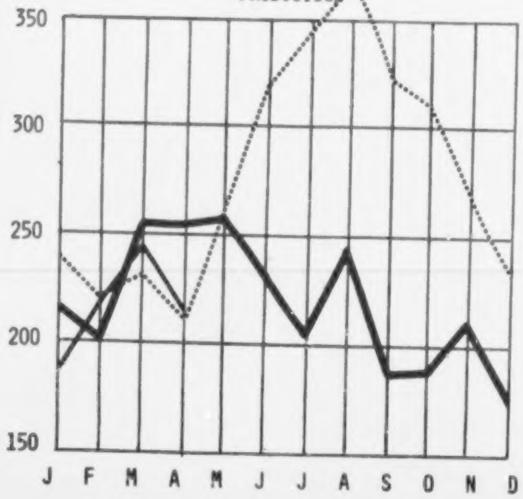
SEMI-CHEMICAL PAPERBOARD
PRODUCTION



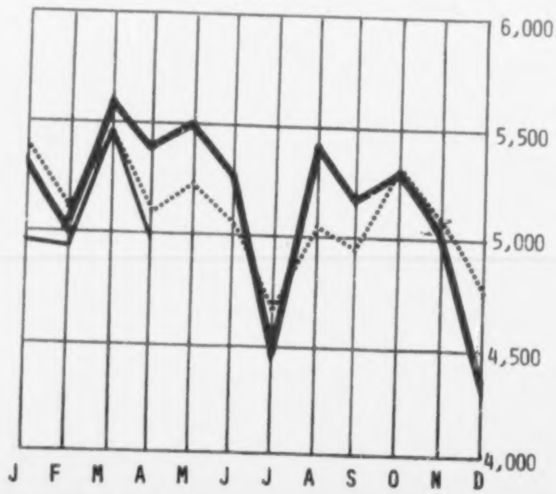
SOLID BLEACHED PAPERBOARD
PRODUCTION



PAPERBOARD FOR EXPORT
PRODUCTION



TOTAL PAPER AND PAPERBOARD
PRODUCTION



1980 ······ 1981 ━━ 1982 ——

PULP, PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 1981 Tons	YEAR 1981 $000	FEB. 1982 Tons	FEB. 1982 $000	MARCH 1982 Tons	MARCH 1982 $000	(1) Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (cords)	168331	9876	12960	574	11055	494	132544	-43.9
Pulpwood Chips	1684969	51400	136110	4450	197042	6649	1902960	1.9
Total All Imports	12560653	5459232	933866	426372	1035596	463992	11695048	-10.6
Wood Pulp, Total	4086698	1754318	309609	138051	296287	124739	3504724	-20.6
Waste Paper	79064	13405	6654	836	6631	868	75416	-12.0
Other Fibrous Materials	54376	19535	6264	2033	6876	2063	65093	44.2
(Paper, Board & Products, Total)	8340516	3671974	611339	285452	725802	336322	8049815	-5.7
Paper, Ppbd & Prod ex Cnst&WMB	7942336	3592451	596815	282163	702007	330971	7841350	-3.1
(Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board)	8245075	3362125	604075	259894	717114	307951	7955784	-5.9
Paper & Paperboard, Only	7846896	3282603	589552	256604	693319	302599	7747319	-3.3
Paper, Total	7716263	3247849	582148	254460	684021	300142	7657837	-2.6
Newsprint	6877118	2824777	524449	223026	608475	261049	6870024	-4.1
Printing & Writing	638538	347116	52492	27398	67660	33033	714276	22.6
Uncoated Groundwood	458915	219697	33174	15267	37699	19141	425521	-2.2
Uncoated Book	114422	64874	11981	6806	13307	7441	143387	73.5
Coated Print.& Impres. Pap	39321	28765	4209	2893	4014	2786	58578	34.0
Bristols	910	656	66	72	47	54	466	-60.2
Writing and Similar Paper	12955	15478	2313	1277	11862	2802	74733	526.6
Thin (except Cigarette)	12015	17647	750	1083	731	810	11590	42.0
Total Pkg & Other Paper	93566	71127	4822	3780	7435	5762	68197	-41.8
Unbleached Kraft Paper	32532	14872	1822	821	1928	975	26737	-44.6
Other Pkg. & Indust. Paper	61034	56254	3001	2959	5507	4807	41460	-39.8
Tissue	7040	4830	385	257	452	279	5340	-4.6
Paperboard, Total	130633	34754	7404	2144	9298	2457	89482	-39.4
Test or Containerboard	48169	12072	1652	382	3497	813	24226	-65.6
Semi-Chemical Corrugating	52468	11695	2420	491	3123	654	32596	-36.1
Other Paperboard	29997	10987	3333	1271	2678	990	32661	25.0
Wet Machine Board	1684	1185	146	124	112	87	1519	6.3
Construction Paper & Board	396496	78337	14377	3166	23684	5265	206946	-52.9
Convtd Paper&Paperbd Products	95440	309849	7263	25558	8688	28372	94030	15.4
Paper Products, Total	87414	293726	6247	23419	7780	26346	83392	12.7
Paperboard Products, Total	8027	16123	1016	2140	908	2026	10638	42.7
Notes								
Other: No Weight Avail. ($000)		125935		7061		10566	111012	-27.1
Total Imports Incl. Other($000)		5585167		433433		474557	5406484	-4.0

EXPORTS

	YEAR 1981 Tons	YEAR 1981 $000	FEB. 1982 Tons	FEB. 1982 $000	MARCH 1982 Tons	MARCH 1982 $000	(1) Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (cords)	188598	10555	6858	344	4315	206	70172	-42.5
Pulpwood Chips	3846049	314037	249065	18738	235070	19245	3138812	-26.8
Total All Exports	10663148	4905814	797950	363755	898871	411303	9605260	-12.9
Wood Pulp, Total	3677635	1661311	302578	132611	319214	138861	3372064	-9.0
Cotton Pulp and Other Pulp	131910	85195	9780	6635	7804	6115	103108	-23.8
Waste and Old Paper	2212549	268526	163095	19334	163410	19138	1971224	-16.2
(Paper, Board & Products, Total)	4641054	2890782	322497	205175	408443	247189	4158864	-13.8
Paper, Ppbd & Prod ex Cnst&WMB	4561410	2853148	316986	202087	401829	243493	4091331	-13.7
(Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board)	4033988	2079837	285603	145208	364349	178196	3658251	-12.4
Paper & Paperboard, Only	3954344	2042303	280092	142120	357735	174500	3590718	-12.1
Paper, Total	1008409	846775	79240	63293	85811	67125	961911	-6.4
Newsprint	270460	139702	26501	12440	30528	14302	345006	88.2
Printing & Writing	383317	354808	23359	23465	23525	22056	264620	-34.2
Uncoated Groundwood	119673	81966	6502	5837	5089	4516	67935	-37.8
Clay Coated Paper	88597	78328	7452	6154	6843	5739	75449	-24.8
Uncoated Free Sheet	116752	119591	5992	6578	7282	7235	74967	-42.8
Other Printing & Writing	58295	64723	3413	4896	4310	4567	46271	-24.8
Total Pkg. & Other Paper	302887	304623	27469	25033	29710	28494	326780	-10.0
Unbleached Kraft	110801	50980	10739	4490	6481	3066	88092	-40.9
Other Pkg. & Indust. Paper	152086	253643	16730	20543	23230	25428	238668	11.4
Tissue	51745	47842	1912	2355	2049	2273	25524	-67.5
Paperboard, Total	2945935	1195528	200852	78828	271924	107374	2628808	-14.1
Solid Wood Pulp	2772413	1110744	190686	73766	259055	100705	2494860	-11.3
Total Linerboard	1973487	660285	126202	39263	181369	55365	1706484	-15.4
Bleached Kraft Linerboard	151978	52546	4584	1685	7194	2778	65030	-68.9
Unbleached Kraft Linerbd	1821509	607739	121618	37578	174175	52587	1641454	-9.2
Other Unbleached Kraft	148855	63341	19219	7292	11378	5266	168782	-3.6
Other Bleached Kraft	584250	367530	37643	25058	57235	37402	536959	-3.8
Semi-Chemical Corrugating	65821	19588	7622	2153	9073	2671	82635	32.8
Recycled Paperboard	173522	84784	10166	5062	12868	6670	133848	-46.0
Wet Machine Board	10812	7039	742	583	532	325	8112	-22.2
Construction Paper & Board E	68832	30595	4769	2505	6082	3371	59420	-24.9
Convtd Paper&Paperbd Products	607066	810845	36894	59967	44094	68993	500613	-23.7
Paper Products, Total	362337	580602	22711	45315	29258	52909	306077	-15.1
Paperboard Products, Total	244729	230243	14183	14652	14836	16084	194536	-34.2
Notes								
Other: No Weight Avail. ($000)		11235		789		643	9232	25.8
Total Exports Incl. Other($000)		4817049		364544		411946	4422256	-11.1

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES
1967 = 100

	1980	1981	JAN.	FEB.	MARCH	APRIL	Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulp, Paper and Products except Building Grades	250.6	270.8	276.1	277.0	277.3	276.4	276.7	4.3
Pulp Paper & Products, ex. Building Grades & ex Waste Paper #	251.3	272.4	278.5	278.5	279.8	278.9	279.2	4.7
Total Wood Pulp	380.3	387.1	412.8	412.8	414.1	382.3	408.0	4.3
Total Paper	256.8	278.0	288.0	289.5	288.5	291.7	289.9	6.0
Total Paper, exc. Newsprint	248.3	271.1	281.3	282.1	281.6	280.4	281.4	6.6
Newsprint	278.7	307.9	316.8	316.8	318.1	330.0	320.4	6.1
Total Paperboard	234.6	258.1	259.7	261.4	261.1	261.2	260.9	2.8
Total Paper and Paperboard #	249.8	273.1	278.7	280.7	280.6	282.1	280.8	5.0
Converted Products	238.5	258.8	263.9	264.9	265.5	265.0	264.8	4.7
Waste Paper	208.7	175.7	135.2	128.8	129.2	128.1	130.3	-30.2
All Commodities	268.8	293.4	298.2	298.5	297.9	297.9	298.1	3.2
Industrial Commodities	274.8	304.1	311.7	311.4	311.0	309.9	311.0	4.5

SOURCE: Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor # Computed by API

Paper and Paperboard

	Production	Imports	Exports	New Supply	Real Gross National Product	Ratio NS/RGNP
	---------------- 000 Tons			------------------	$ Billion '72 Prices	
1972	53,886	7,567	3,019	58,434	1,185.9	49.3
1973	56,383	8,019	2,965	61,437	1,255.0	49.0
1974	55,926	7,970	3,720	60,176	1,248.0	48.2
1975	48,147	6,165	3,050	51,262	1,233.9	41.5
1976	55,150	7,042	3,388	58,804	1,300.4	45.2
1977	56,823	7,293	3,171	60,945	1,371.7	44.4
1978	58,732	8,781	3,301	64,212	1,436.9	44.7
1979	61,319	8,738	3,610	66,447	1,483.0	44.8
1980	61,143	8,304	5,148	64,299	1,480.7	43.4
			Annual Rates*			
1981						
1st Qtr.	63,339	8,095	4,743	66,691	1,516.4	43.98
2nd Qtr.	62,681	8,067	5,038	65,710	1,510.4	43.51
3rd Qtr.	63,413	7,263	4,465	66,211	1,515.8	43.68
4th Qtr.	60,089	8,344	3,999	64,434	1,498.4	43.00
Year	62,329**	7,942	4,561	65,710	1,510.3	43.51
1982						
1st Qtr.	61,019	7,841	4,091	64,769	1,482.2	43.70

* Production data seasonally adjusted ** Actual total

Continued from Page 2

ting board. However, the table on page 9 showing imports and exports of these grades will continue to be reported, but a separate total will be shown for the paper and paperboard grades alone.

Data on imports for the first quarter of 1982, as reported by the Bureau of Census show total imports of paper plus paperboard down 3.3%, an increase in imports of converted paper and paperboard products held the total to a 3.1% decline.

Exports declined rather sharply, with the total of paper, paperboard and products down about 14%, and 12% for the primary grades alone. Census data also show that wood pulp exports were down 9%. Paper grade chemical market wood pulp exports reported by the API's Pulp and Raw Materials Division showed a 3.5% decline for the same period.

The first quarter 1982 rate of paper and paperboard new supply was 64.8 million tons per year. This was equivalent to 43,700 tons for each billion dollars of the real gross national product, about the same as it was in the first half of 1981 and 0.4% above the average 1981 level.

To put the data on production imports, exports and new supply in perspective, the table on the lower half of page 10 shows the annual figures for 1972 through 1980, together with quarterly data for 1981 and the first quarter of 1982. The table also shows data on the real gross national product and the ratio of new supply to the real gross national product for these various time periods.

Technical Note:

The table on page 3 has been revised to exclude all data reported by the Bureau of Census. This includes data on production of wet machine board, construction paper, insulating board, and hard pressed board. Census no longer publishes monthly data on these series. In addition, data on "other paper" and thin paper will now be reported based on information from API Divisions.

Continued on Page 12

Continued from Page 11

The data on page 5 now exclude production of defibrated and exploded wood pulps and production of screenings, together with data on consumption of these fibers in the manufacture of paper and paperboard. Defibrated and exploded pulps are used largely in the construction grades so that the wood pulp consumption now reported represents consumption at paper plus paperboard mills. In addition, data on consumption of other fibrous materials - rags, straw, bagasse, etc. - have also been deleted. A large part of these fibers are used in the manufacture of building paper. Cotton linters and hemp are among the fibers used in the manufacture of paper and paperboard, but these amount to only a few hundred thousand tons a year, and no estimate can be made on a monthly basis. The footnote showing consumption of waste paper at paper and board mills, as reported by the Census, is also, of course, deleted. Data on consumption of waste paper at paper and board mills, as reported by API's Paper Recycling Committee, have been adjusted to exclude waste paper used at wet machine board and construction paper and board mills. Thus, the consumption of total fibrous materials shown on the bottom panel of this page represents a reasonable estimate of consumption at paper plus paperboard mills.

The table on pages 7 and 9 on imports and exports have been modified to include totals of imports and exports of paper plus paperboard only. However, these tables will continue to show imports and exports of wet machine board and construction paper and board, and also the industry totals including these grades. These data come from the Foreign Trade Division of the Bureau of Census, which continues to publish monthly data. The new totals of imports and exports of paper and paperboard alone can be used to estimate the total new supply of these grades.

The table on page 10 showing production of paper and paperboard by grades, as reported by the Bureau of Census, has also been deleted. The API's annual report, Statistics of Paper, Paperboard and Wood Pulp, will continue to report data on wet machine board, construction paper and construction board, inasmuch as the Bureau of Census plans to continue to publish these data on an annual basis.

The charts on pages 4, 6 and 8 have also been revised to exclude data on production of wet machine board, construction paper and insulating board. A new chart has been added on page 8 showing paperboard production for export.

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

MAY 28, 1982

	PRODUCTION (000 TONS)					
	April 1982	March 1982	April 1981	Jan -April 1982	- 1981	% Change 82/81
PAPER GRADES	P	R				
Newsprint	437	463	431	1773	1681	5.5
Printing & Writing	1261	1405	1363	5204	5373	-3.1
Uncoated Groundwood (s)	119	123	127	460	491	-6.3
Coated Paper (s)	398	437	405	1628	1659	-1.8
Uncoated Free Sheet Paper (s)	625	716	702	2620	2700	-3.0
Thin Paper (s)	28	32	29	116	116	-0.3
Cotton Fiber Paper (s)	10	11	10	41	42	-4.0
Bleached Bristols (s)	80	85	91	339	364	-7.0
Tissue Paper	380	407	372	1506	1497	0.6
Total Pkg & Other Paper	414	497	495	1817	1967	-7.6
Unbleached Kraft Packaging & Indl. Converting (s)	288	343	349	1266	1371	-7.6
Other Paper *	126	154	146	552	597	-7.6
TOTAL PAPER	2492	2771	2662	10301	10518	-2.1
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1226	1370	1404	5004	5392	-7.2
Unbleached Kraft Linerboard	1145	1269	1303	4639	5016	-7.5
Other Unbl. Kraft Paperboard	81	101	101	364	375	-2.9
Semichemical Paperboard	370	391	409	1491	1654	-9.9
Bleached Paperboard	316	323	334	1248	1344	-7.2
Recycled Paperboard	562	614	600	2273	2430	-6.5
TOTAL PAPERBOARD	2475	2699	2747	10016	10820	-7.4
TOTAL PAPER AND PAPERBOARD	4966	5470	5409	20316	21339	-4.8

WOOD PULP (ALL GRADES)	March 1982	Feb. 1982	March 1981	Jan -March 1982	- 1981	% Change 82/81
Dissolving & Special Alpha	122	106	111	327	342	-4.2
Bleached Sulphite	122	109	122	336	375	-10.5
Unbleached Sulphite	32	28	35	87	100	-12.9
Bleached & Semi-Bl. Sulph.	1775	1649	1786	5053	5037	0.3
Unbleached Sulphate	1732	1593	1770	4763	4963	-4.0
Semichemical	350	299	359	975	1029	-5.2
Groundwood and Thermo-Mechanical	464	415	463	1319	1325	-0.4
TOTAL PULP DIVISION DATA	4597	4198	4645	12861	13170	-2.3

(s) - Shipments R - Revised E - Estimate
P - Preliminary * - Revised series based on A.P.I. data.

May 28, 1982

	Full Year		INDUSTRY DATA			Ann. Rate Year – To – Date	% From Same Pd. Last Yr.
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1980	1981	February	March	April		
Total Production (API) | excluding |	61143	62329 R	4935	5470	4966	60948	-4.8
Total Seasonally Adjusted | construction |			5181	5072	4858	60340	-4.8
Imports (including Products) | and wet | ..E	8302	7942	597	702	650	7830	-2.9
Exports (including Products) | machine | ..E	5148	4561	317	402	350	4119	-15.2
Apparent Consumption | grades |	64297 a	65710 Rb	5461	5372	5158	64050c	-3.8
Paper Production % Tonnage Capacity	92.4 g	92.4 Rg	91.3	91.3	84.8	88.9 gh	-
Paperboard Production % Tonnage Capacity	91.8 g	91.2 Rg	88.5	87.8	83.1	85.4 g	-
			January	February	March		
IMPORTS | Including Construction and |	8778	8341	675	611	726	8050	-5.7
EXPORTS | WMB Grades (excl. HPB) |	5214	4641	309	323	408	4159	-13.9
MARKET WOOD PULP PRODUCTION - Tons (000)	6488	6190	425	538	536	5994	-4.3
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)	50737	51985	4066	4198	4597	51444	-2.3
WOOD PULP IMPORTS - TONS (000)	4051	4087	270	310	296	3505	-20.6
WOOD PULP EXPORTS - TONS (000)	3806	3678	221	303	319	3372	-9.0
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS | excluding |			January	February	March		
Wood Pulp | consumption for |	49476	50822	3897	4037	4851	51143	-1.3
Waste Paper | construction & |	13551	14022	1108	1111	1235	13818	-3.3
TOTAL | WMB grades |	63027	64844	5005	5149	6086	64960	-1.7
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	80522	79604	6396	6509	7018	79692	-0.8
EMPLOYMENT (000)			February	March	April		
Paper and Allied Products Total	694.0	692.3	671.4	671.0	667.1	671.1	-2.6
Pulp, Paper and Board Mills Total E	289.0	268.4	259.5	259.1	257.6	259.4	-2.9
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products	7.85	8.60	9.00	9.03	9.13	9.06	9.1
Pulp, Paper Mills E	9.15	10.05	10.48	10.50	10.60	10.52	9.2
Paperboard Mills E	9.28	10.23	10.63	10.73	10.80	10.73	8.7
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1981 Q3	1981 Q4	1982 Q1		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	6.80	6.72	7.01	6.56	6.17	6.17	-11.0
INDEX OF OUTPUT PER MAN-HOUR (1977=100)			February	March	April		
| IN PULP, PAPER | ...Production Workers	108.1	108.5	114.2	112.8	107.8	110.6	-0.7
| AND BOARD MILLS | ...All Employees	106.6	107.4	112.4	110.6	106.0	108.7	-1.1
PAPER AND ALLIED PRODUCTS (Million $)			January	February	March		
Industry Shipments (Dept. of Commerce)*	71736	77784	6500	6520	6503	78092	0.7
Pulp, Paper and Paperboard*	31952	34181	2797	2822	2888	34028	0.3
Inventories (End of Period) - Total Industry*	7798	8817	8738	8949	9022	9022	8.9
Pulp, Paper and Paperboard*	2794	3301	3327	3378	3388	3388	14.0
			1981 Q3	1981 Q4	1982 Q1		
Sales (Corporations Only, FTC)	58250e	62502	16024	15356	N.A.	N.A.	N.A.
Earnings (Corporations Only, FTC)	2800e	3108	634	829	N.A.	N.A.	N.A.
Depreciation (Corporations Only, FTC)	2026e	2253	584	555	N.A.	N.A.	N.A.
Net Worth (Corporations Only, FTC)	24396	26452	26008	26452	N.A.	N.A.	N.A.
PRICE INDEXES (Bureau of Labor Stats)1967=100			February	March	April		
Pulp, Paper & Products, ex. Building Grades	250.6	270.8	277.0	277.3	276.4	276.7	4.3
Wood Pulp	380.3	397.1	412.8	414.1	392.3	408.0	4.3
Waste Paper	208.7	175.7	128.8	129.2	128.1	130.3	-30.2
Paper	256.8	279.8	289.5	289.5	291.7	289.9	8.0
Paperboard	234.6	258.1	261.4	261.1	261.2	260.9	2.8
PAPER DEMAND (INDEXED: 1967=100)			February	March	April		
Total Paper Production *	143.9	148.6	149.1	147.2	141.9	146.3	-2.1
Paper New Supply *	136.1	137.9	136.0	138.6	133.1	136.3	-1.7
Total End - Use Index *	146.3	150.3	150.9	149.4	149.0	149.7	-0.1
Production of Nondurable Goods *...(19%)	161.2	164.7	157.7	156.7	156.4	156.5	-5.6
Disposable Income (Constant $) *...(23%)	151.0	154.3	156.5	157.1	157.8	156.8	2.2
Total Printing and Publishing *...(58%)	139.5	144.0	146.4	144.0	143.0	144.8	1.0
Trend Factor	----------	----------	----------	Not Available	----------	----------	----------
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *	135.4	137.1	135.6	131.6	125.3	130.2	-7.4
Production For Domestic Use	128.3	132.9	131.4	125.8	120.8	125.8	-7.6
Total End - Use Index *	146.1	149.3	141.5	140.8	140.8	140.6	-6.3
Production of Consumer Goods *...(60.49%)	145.4	147.8	141.7	141.7	142.5	141.4	-4.5
Production of Equipment *...(6.62%)	145.2	151.8	147.7	146.0	144.5	146.4	-2.3
Production of Materials *...(32.89%)	147.6	151.5	139.9	138.2	136.8	138.0	-10.3
Trend Factor	----------	----------	----------	Not Available	----------	----------	----------
NEWSPRINT MARKETS			January	February	March		
Consumption by Publishers - Tons (000)	11121	11205	873	857	959	10754	1.5
Newspaper Pub. and Printing Empl. Total(000)	422.8	432.0	435.9	438.1	437.2	437.1	2.6
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)	118372	122003	8143	8878	10766	111151	1.3
WHOLESALERS SALES AND INVENTORIES (Million $)(J)							
Total Paper & Pap. Prdcts..ex Wallpaper..Sales	21296	24381	1958	1902	2176	24144	2.9
Inventories (End of Period)	1849	2095	2110	2109	2082	2082	8.0
Paper Only Sales	15643	17631	1379	1363	1557	17196	1.5
Inventories (End of Period)	1227	1383	1386	1408	1413	1413	9.6
RETAIL TRADE (Million $)			February	March	April		
Total Retail Sales *	953984	1044587	87654	87129	88310	1045236	0.8
Nondurable Goods Stores Sales *	656231	716262	60844	60156	60417	724263	2.5
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*	147.0	150.9	142.7	141.5	140.7	141.4	-6.9
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100)	268.8	293.4	298.5	297.9	297.9	298.1	3.2
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)	246.8	272.4	283.4	283.1	284.3	283.3	7.4
			January	February	March		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $)	313.5	333.4	330.1	327.4	327.1	327.1	5.1
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$)			1981 Q3	1981 Q4	1982 Q1		
G.N.P. or Expenditure - Current $	2626.1	2925.5	2965.0	2998.3	2991.6	2991.6	4.9
G.N.P. OR Expenditure - 1972 $	1480.7	1510.3	1515.8	1498.4	1482.2	1482.2	-2.3

	lb/capita			
	Pap&Papbd	Othr	Totl	Popul(mil)
.a	565 +	28 =	591	227.7
.b	572 +	21 =	593	229.7
.c	554 +	15e =	569	231.3

.E - Last month estimated by API
.e - estimated by API

g - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
J - Census unpublished data; standard dev. = 6-8%
N.A. - Not Available
P - Preliminary
Q - Quarter

R - Revised
RS - Revised Series
y - Full year estimated by U.S. Dept. of Commerce
* - Seasonally adjusted

A2500-2 7/9/82

Paper Paperboard & Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 60 - No. 6 JUNE 1982

Production Weakens

Preliminary data for May 1982 indicate that the rate of paper and paperboard production moved below the low rate of the previous month. The May trend level -- the April-May seasonally adjusted average -- was 58.5 million tons per year. This was 4.0% below the first quarter 1982 average of 60.9 million tons per year and represented a lower production rate than the 1978 average. Production in the first quarter of 1982 had marked a small recovery from the 60.0 million tons per year rate of the fourth quarter of 1981, but was still well below the 63.0 million tons per year achieved in the first three quarters of that year.

The production trend was consistent with the weak demand for goods generally. For example, the Federal Reserve Board index of total manufacturing production in May 1982 was 139.1 (1967=100), which was about 9% below its year-ago level, and it too was below its average 1978 level. In fact, the trend of paper and board production during the past 18 months has been remarkably consistent with that of manufacturing production. For example, manufacturing production fluctuated in a very narrow range from January through September 1981 and then dropped sharply in October and showed further declines in November and December. The index of production of manufactured goods showed a slight recovery in January and February 1982, but has since been trending downward. This pattern is duplicated in the record of paper and paperboard production since January 1981.

Some of the weakness in manufacturing activity stems from cutbacks in inventories evident during the past 6 months. For example, non-farm inventories in the second and third quarters of 1981 were being built up at a rate of $11 billion per year, expressed in 1972 prices, according to the data in the national product accounts. In the fourth quarter the annual rate of accumulation dropped sharply to $1.3 billion and in the first quarter of 1982 inventories were drawn down at the rate of $16.5 billion per year. Preliminary data released by the Department of Commerce suggest that inventories were further reduced in the second quarter, although at a much slower rate than in the first. The packaging paper and paperboard segments of the industry are particularly sensitive to such inventory changes.

Continued on Page 2

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Continued from Page 1

Although downtrends were evident throughout both the paper and paperboard grade structure, paperboard showed the sharper declines. For the first five months in 1982 paperboard production was at a seasonally adjusted rate of 29.7 million tons per year, 7.6% below its corresponding year-ago level. Paper production, at 30.3 million tons per year, was down 2.7%

Among the paper grades, newsprint continued to show the strongest pattern of production. But even in this category, output was in a declining trend in April and May despite an increase of 3.5% over its year-ago level for the first five months as a whole. Tissue paper production held close to its year-ago rate while the production of packaging and industrial grades was down 9%.

The printing and writing grades were down 3% for the five month period. New orders for groundwood paper in 1982 have been a little stronger than shipments with a consequent rise in unfilled orders. Orders for both coated and uncoated free sheet grades have been below shipments; the unfilled order backlogs continued downward.

All the major sectors of paperboard showed declines, with relatively small grade-to-grade deviations around the average rate. Production of containerboard for domestic use, for example, was down 8.2% in the first five months of the year; this was fairly consistent with the 6.5% decline in shipments of fibre boxes reported by the Fibre Box Association. Inventories of containerboard at mills and plants increased moderately during the past three months and in terms of the relatively low rate of shipments are now in excess of 8 weeks of supply.

Production of boxboard for domestic use was down 8.2%, with no strength evident in any of the major grades.

Paperboard production for export in the first five months of 1982 was down 5.4% from its year-ago level, paced by kraft linerboard. However, the average rate of kraft linerboard production for export in the first five months of the year - 1.94 million tons per year - was above the 1981 average rate, while exports of solid bleached board, at 544,000 tons per year, was only modestly below the 557,000 tons exported in 1981 and almost matched the 545,000 tons exported in 1980.

Weekly data for the first two weeks in June indicated that paperboard production moved below its May rate, while production of paper appeared to have remained flat.

Technical Note: The data on printing and writing papers for the first four months of 1982 and all of 1981 have been revised in line with the Printing Paper Division's annual data review. The 1981 production total is now reported at 15,681,000, about 3/4% below the previously reported total. The major change was in the bleached bristols category; the earlier published data had been based

Continued on Page 11

PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS

(Thousands of Tons)

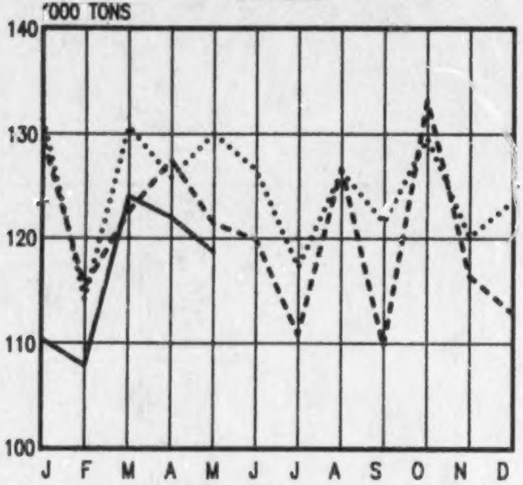
	YEAR 1980	YEAR 1981	FEB. 1982	MARCH 1982	APRIL 1982	MAY 1982	Annual Rate Y-T-D 1982	% Change From same Period Last Year
PAPER					R	P		
Newsprint - Production	4872	5238	416	463	437	424	5274	3.5
- Shipments	4867	5220	415	455	413	414	5148	1.5
Printing & Writing	15605	15881	1234	1395	1306	1265	15553	-3.0
Groundwood Paper - Shipments	1498	1447	108	124	122	118	1400	-5.4
- New Orders	1475	1434	112	121	142	122	1462	-1.5
- Unfilled Orders	110	99	85	87	115	114	114	1.6
Coated Paper - Shipments	4673	4940	389	437	408	410	4817	-0.8
- New Orders	4753	4853	411	407	407	384	4814	0.1
- Unfilled Orders	391	380	361	332	345	303	303	-17.6
Unctd Free Sheet - Shipments	7983	7889	831	713	860	630	7876	-3.6
- New Orders	7684	7726	612	713	837	608	7672	-5.2
- Unfilled Orders	546	370	326	330	328	282	282	-43.6
Thin Paper - Shipments	343	336	27	32	28	28	346	-0.4
Cotton Fiber Paper - Shipments	128	122	10	12	10	10	128	0.8
Bleached Bristols - Production	982	947	70	77	77	87	888	-7.9
Tissue Paper - Production	4375	4485	365	405	359	380	4487	-0.6
Total Packaging & Other Paper *	5539	5569	468	487	428	385	5336	-9.1
Unbl. Kraft Paper - Shipments	3930	3881	324	343	288	270	3686	-10.3
Other Paper - Production *	1609	1678	144	154	138	125	1650	-8.1
TOTAL PAPER-Production-Unadj.	30191	30884	2484	2780	2527	2475	30680	-2.7
-Production-S.A.			2582	2558	2512	2395	30260	-2.7
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	23881	24231	1894	2097	1913	2016	23452	-7.8
Unbl. Kraft Linerboard (1)	14232	14540	1152	1268	1145	1185	14001	-7.8
Production for Export	2380	1887	164	180	152	181	1941	-5.3
Other Unbl. Kraft Paperboard	1063	1062	85	101	82	102	1123	-2.8
Semichemical Paperboard	4723	4719	355	381	369	380	4510	-8.6
Production for Export	322	155	15	14	15	18	177	-4.2
Solid Bleached Paperboard	3862	3910	302	336	317	328	3818	-8.5
Production For Export	545	557	41	50	45	47	544	-3.7
Recycled Paperboard	7071	7001	548	614	571	571	6847	-6.9
Production For Export	83	24	1	1	2	1	17	-50.6
TOTAL PAPERBOARD-Prod.-Unadj.	30852	31232	2442	2711	2484	2587	30289	-7.6
- Containerboard Prod.(Dom. Use)	18070	18040	1487	1623	1498	1547	18173	-8.2
- Boxboard Prod.(Dom. Use) (2)	5477	5544	434	482	444	45[illegible]	5408	-8.2
- All Other P'bd Prod.(D.U.) (2)	4075	4026	320	380	330	342	4038	-5.2
- Total Paperbd Prod. for Export	3328	2822	221	248	214	247	2678	-5.4
TOTAL PAPERBOARD PROD. - S.A.			2578	2515	2381	2445	28880	-7.8
TOTAL PAPER AND PAPERBOARD								
Production - actual	61143	62216	4826	5472	5011	5082	60960	-5.2
Production - S.A.			5172	5073	4903	4841	59840	-5.2

(1)Includes all exports of kraft paperboard.
(2)Data for unbl. kraft folding boxboard incl. in All Other P'bd.
* Revised series based on A.P.I. data, beginning January, 1981.

P Preliminary
R Revised
S.A. Seasonally Adjusted

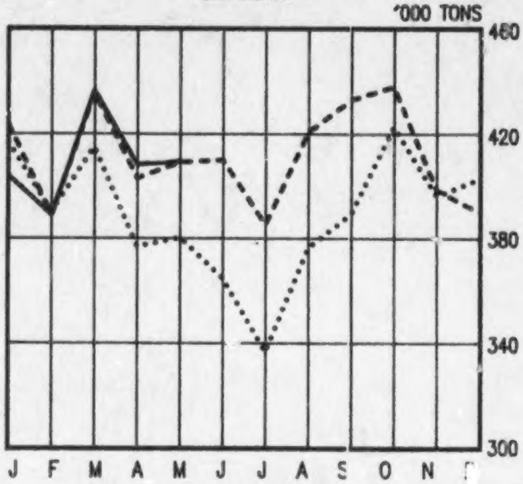
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



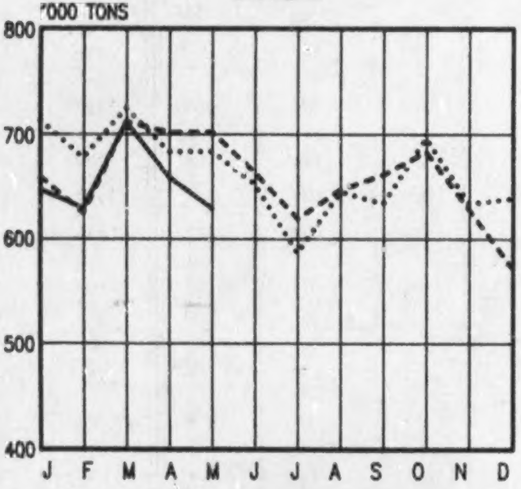
COATED PAPER

SHIPMENTS



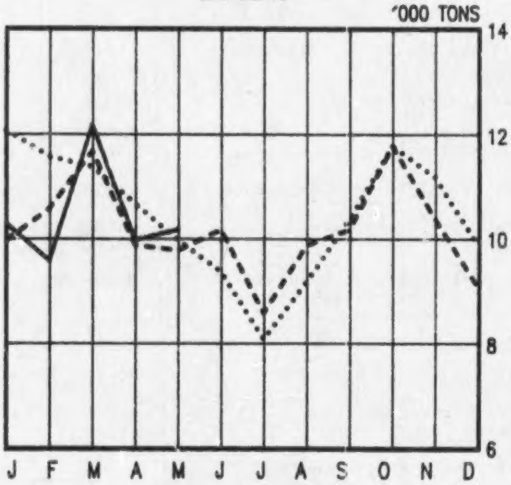
UNCOATED FREE SHEET PAPERS

SHIPMENTS



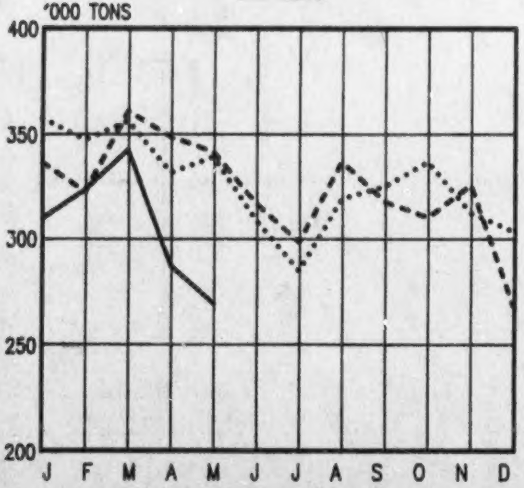
COTTON FIBER PAPER

SHIPMENTS



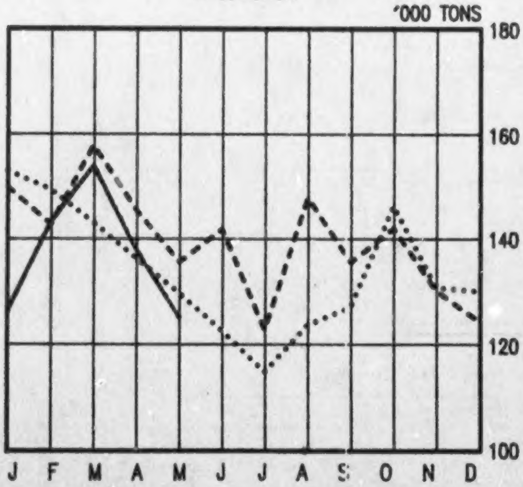
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



COATED PAPER

PRODUCTION



1980······· 1981----- 1982 ——

WOOD PULP STATISTICS
(Thousands of Tons)

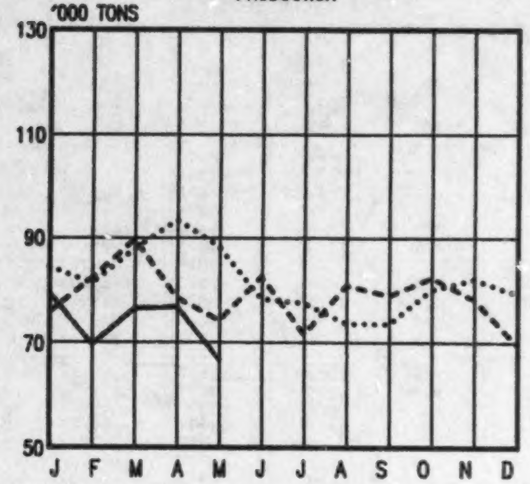
		YEAR 1980	YEAR 1981	JAN. 1982	FEB. 1982	MARCH 1982	APRIL 1982	Annual Rate Y-T-D 1982	% Change From same Period Last Year
TOTAL WOOD PULP						R	P		
Total Wood Pulp	- Production	50737	51885	4086	4198	4587	4208	51207	-3.5
	- Imports	4051	4087	270	310	296	306	3547	-15.5
	- Exports	3806	3678	221	303	319	316	3477	-4.7
	- New Supply	50982	52394	4115	4205	4574	4198	51277	-4.4
Dissolving Pulp	- Production	1508	1365	99	108	122	97	1273	-5.6
	- Imports	263	249	30	11	11	23	225	-2.8
	- Exports	769	784	50	42	62	52	616	-20.9
	- New Supply	1002	830	79	75	71	68	881	10.1
Paper Grades Chemical Pulp	- Production	40436	41376	3200	3379	3660	3374	40840	-3.5
	- Imports	3815	3655	228	287	267	276	3173	-15.4
	- Exports	2856	2870	168	260	256	263	2842	0.1
	- New Supply	41095	42161	3260	3406	3671	3387	41171	-4.7
Groundwood and Thermo-Mech.	- Production	4767	5320	441	415	464	421	5221	-1.7
	- Imports	173	183	12	12	19	7	150	-30.0
	- Exports	81	24	3	1	1	1	19	-35.4
	- New Supply	4859	5478	450	425	482	427	5352	-2.7
Semi-Chemical	- Production	4026	3924	328	299	350	316	3873	-5.9
	- Imports	0	0						
	- Exports	0	0	------	Included	with	Groundwood	Pulp ------	
	- New Supply	4026	3924	326	299	350	316	3873	-5.9
MARKET WOOD PULP									
Total Market Wood Pulp	- Production	6488	6190	425	538	536	494	5876	-3.2
	- Imports	2947	2924	222	228	201	229	2641	-10.7
	- Exports	3513	3352	186	282	304	273	3137	-5.0
	- New Supply	5921	5761	461	485	432	449	5480	-8.0
Dissolving Pulp	- Production	1506	1337	85	120	122	97	1271	0.2
	- Imports	235	241	25	11	8	23	202	-19.7
	- Exports	876	787	48	51	76	57	695	-5.2
	- New Supply	865	791	62	79	56	63	778	-1.1
Paper Grades Chemical Pulp	- Production	4913	4852	340	419	414	396	4705	-4.0
	- Imports	2687	2634	195	215	189	199	2390	-9.0
	- Exports	2588	2555	139	230	229	216	2443	-4.1
	- New Supply	5012	4931	396	403	373	379	4653	-6.6
Groundwood Pulp and All Other	- Production	69	1	0	0	0	0	1	-0.0
	- Imports	26	49	3	3	4	7	48	-40.6
	- Exports	50	10	0	0	0	0	0	0.0
	- New Supply	44	40	3	3	4	7	49	-17.8

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp & Raw Materials Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

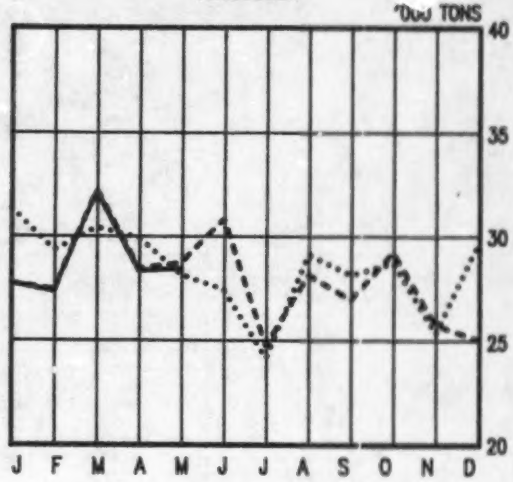
FIBROUS RAW MATERIALS
(Thousands of tons)

CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	63027	64849	5021	5148	5630	5455	63764	-3.8
Total Wood Pulp	48476	50827	3913	4037	4395	4298	49930	-3.9
Waste Paper	13551	14022	1108	1111	1235	1157	13834	-3.4
INVENTORIES								
Total Wood Pulp at Pulp Mills	117	188	194	196	202	205	205	34.2
Market Pulp at Pulp Mills	239	389	413	410	403	416	416	38.9
Waste Paper at Paper &Bd. Mills	1008	1216	1137	1120	1115	1048	1048	0.2
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	18	33	36	33	32	32	32	45.5

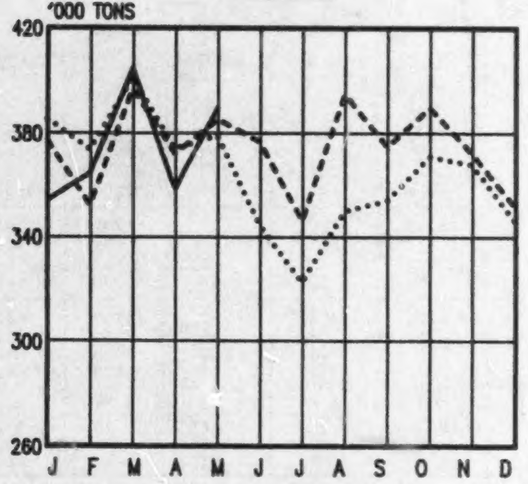
SOURCES: Wood Pulp Data, Pulp & Raw Materials Group, API. Waste Paper Data, Paper Recycling Committee, API
P - Preliminary; R - Revised; (O) - Indicates zero to five-hundred short tons


BLEACHED BRISTOLS

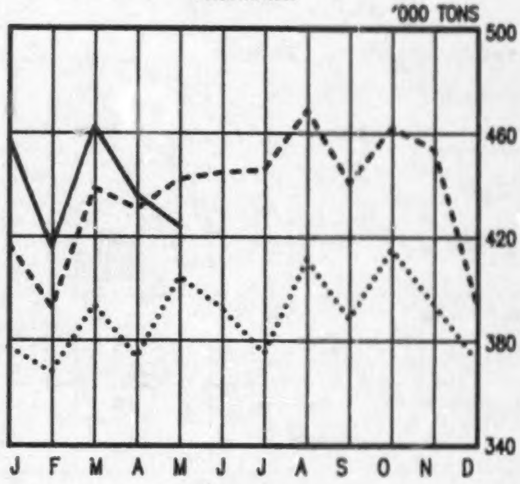
PRODUCTION


THIN PAPER

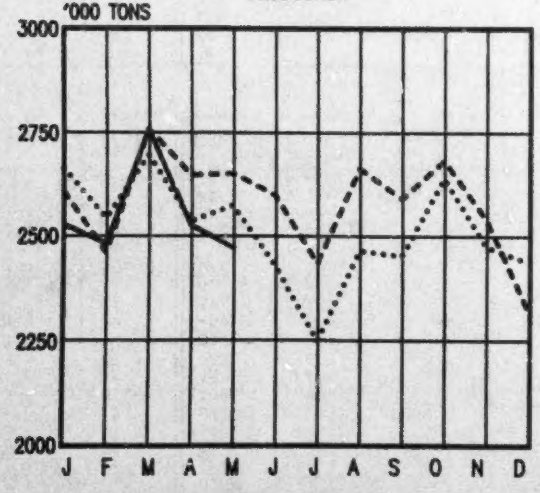
PRODUCTION


TISSUE PAPER

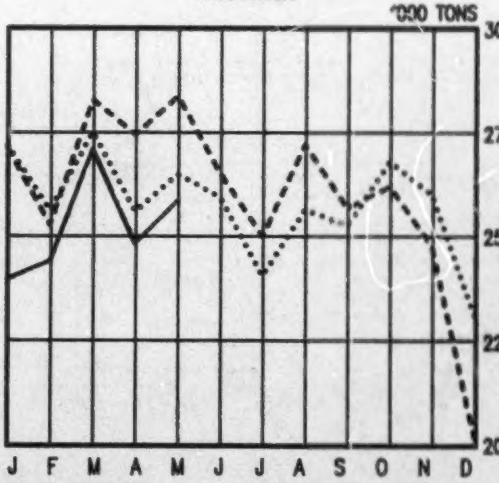
PRODUCTION


NEWSPRINT

PRODUCTION


TOTAL PAPER

PRODUCTION


TOTAL PAPERBOARD

PRODUCTION

1980 ········ 1981 - - - - - 1982 ———

FIBROUS RAW MATERIALS (Continued)
(Thousands of Standard (128 cubic Feet) Cords)

		YEAR 1980	YEAR 1981	JAN. 1982	FEB. 1982	MARCH 1982	APRIL 1982	Annual Rate Y-T-D 1982	% Change From same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	81805	78547	5906	6229	6889	6500	78802	-3.8
	- Total Consumpt.	80522	78604	6396	6509	7018	6791	80142	-0.8
	- Residues *	28402	30590	2189	2285	2573	2671	29034	-7.6
	- Inventories	6285	6045	5571	5343	5274	5074	5074	-8.2
So. Atlantic	- Total Receipts	26742	24881	1767	1847	2188	1972	23582	-7.1
	- Total Consumpt	26891	24815	2018	1984	2061	1949	23870	-7.0
	- Residues *	8776	8770	603	650	763	683	8097	-8.6
	- Inventories	1158	1051	808	790	883	889	889	-10.4
Northeast	- Total Receipts	7710	7803	638	686	638	536	7434	-0.6
	- Total Consumpt	7487	7712	622	624	626	670	7626	-2.6
	- Residues *	1649	1382	99	113	108	125	1329	-10.1
	- Inventories	724	635	645	696	702	568	568	-3.2
South Central	- Total Receipts	27509	27744	1943	2080	2510	2281	26472	-3.9
	- Total Consumpt	27074	27687	2122	2275	2555	2347	27887	0.3
	- Residues *	8001	8823	587	657	744	778	8288	-10.7
	- Inventories	1830	1825	1639	1475	1432	1393	1393	-9.8
North Central	- Total Receipts	5514	5650	486	518	444	317	5289	-4.9
	- Total Consumpt	5292	5708	447	484	508	484	5843	0.9
	- Residues *	1361	1439	98	99	107	98	1206	-14.6
	- Inventories	1210	1106	1134	1176	1100	854	854	-20.0
West	- Total Receipts	14330	13869	1072	1010	1238	1384	14145	2.4
	- Total Consumpt	13878	13882	1189	1182	1270	1381	15006	8.2
	- Residues *	9615	10096	782	748	853	887	10104	-1.8
	- Inventories	1363	1428	1344	1208	1177	1270	1270	4.7

* - Consumption of Residues in Cord Equivalents.   SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA
IMPORTS FROM CANADA

	YEAR 1981 Tons	YEAR 1981 $000	MARCH 1982 Tons	MARCH 1982 $000	APRIL 1982 Tons	APRIL 1982 $000	Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic Feet)	188317	9876	11055	484	5052	222	114584	-38.3
Pulpwood Chips	1884950	51384	197041	6849	138797	4586	1843608	0.4
Wood Pulp, Total	3800713	1648868	281410	123108	238519	107852	3178124	-19.9
Waste Fibrous Materials, Total	120498	21239	11925	2182	8886	1408	116910	-2.0
Paper, Board & Products, Total	8037877	3282788	690882	301637	578129	242525	7543616	-8.3
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	8001585	3218080	687420	295585	575838	237129	7503801	-8.5
Paper Paperboard & Products	7675713	3210134	669736	296804	558249	237784	7344184	-6.1
Paper & Paperboard, Only	7639420	3146427	666273	290762	552959	232389	7304389	-6.3
Paper, Total	7509823	3112817	657054	288405	546308	230677	7218147	-5.8
Newsprint	6935975	2807548	602832	258747	499850	206080	6624552	-6.5
Printing, Writing & Rel. Pap.	482408	242844	47024	24487	38841	19894	524575	17.3
Pack. & Ind. Conv. Paper	82414	54433	6628	4694	6291	4190	63228	-37.3
Special Industrial Paper	2279	3639	123	231	78	138	1145	-46.0
Tissue Paper	6748	4452	447	287	440	275	4847	-27.8
Paperboard, Total	129597	33510	9218	2357	6852	1712	86222	-44.2
Convtd Paper&Paperbd Products	36292	63708	3464	6042	3290	5385	38816	46.0
Wet Machine Board	1064	573	64	37	80	53	878	-0.8
Construction Paper & Board	381101	72080	21092	4796	22780	4688	188554	-50.8

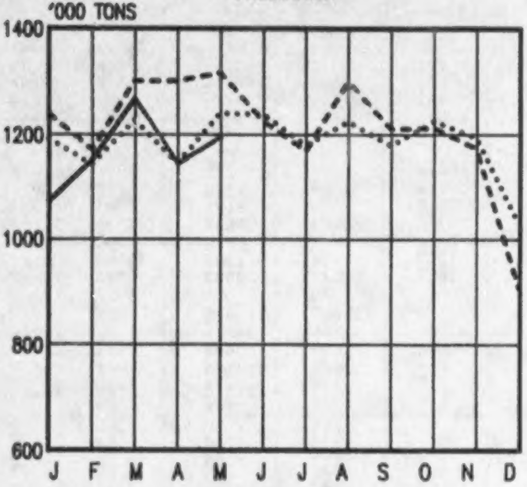
EXPORTS TO CANADA

	YEAR 1981 Tons	YEAR 1981 $000	MARCH 1982 Tons	MARCH 1982 $000	APRIL 1982 Tons	APRIL 1982 $000	Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic Feet)	185312	10444	3711	178	6359	408	68884	-47.0
Pulpwood Chips	38471	1525	2873	182	808	42	23808	-50.8
Wood Pulp, Total	118821	58740	9154	4862	7748	3732	116712	-7.4
Cotton Pulp & Other Pulp	5900	3880	580	390	580	388	8798	-6.9
Waste Paper	358523	41185	25832	2988	25343	3038	248897	-31.0
Paper, Board & Products, Total	695982	504804	50322	38197	40575	32788	514053	-36.2
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board	527486	385270	36765	27561	28840	22348	378405	-40.4
Paper, Paperboard & Products	658327	489875	48312	38374	39187	32180	484083	-34.8
Paper & Paperboard, Only	487822	350041	34754	26738	27282	21741	356415	-38.6
Paper, Total	278136	247808	19254	18232	13731	15057	188883	-38.8
Newsprint	8435	6155	347	271	118	116	2540	-58.1
Printing, Writing & Rel. Pap.	162823	134132	11281	8350	8689	7520	115274	-40.2
Pack. & Ind. Conv. Paper	24385	17449	1660	1084	1387	982	18201	-41.0
Special Industrial Paper	75854	84471	5589	7164	3404	6302	59324	-35.8
Tissue	6858	5800	378	383	133	156	3345	-55.1
Paperboard, Total	208886	102235	15501	8506	13531	6684	158731	-37.3
Convtd Paper&Paperbd Products	166505	139834	13558	11836	11935	10449	137848	-21.3
Wet Machine Board	7201	4215	336	188	272	157	3471	-51.0
Construction Pap & Bd. E	32484	11014	1875	637	1105	450	18518	-82.1

SOURCE: Bureau of Census, Department of Commerce.   E - Estimate of tonnage based on square foot data

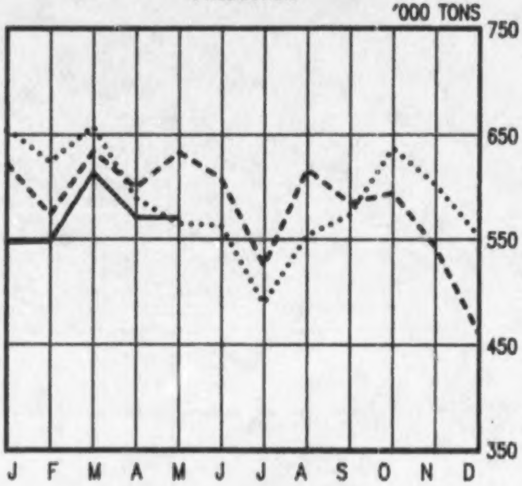
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



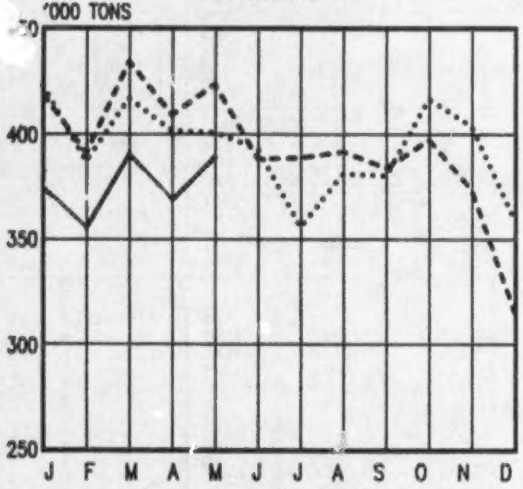
RECYCLED PAPERBOARD

PRODUCTION



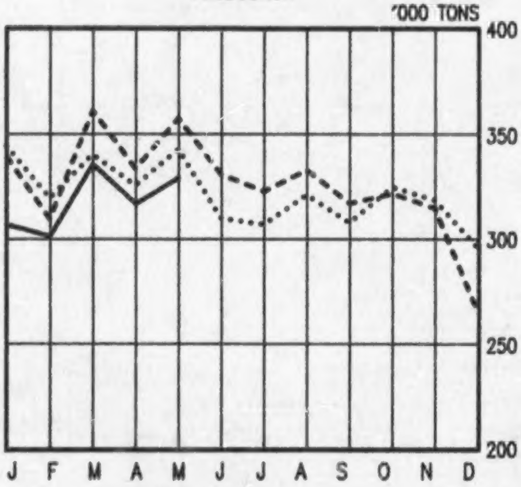
SEMICHEMICAL PAPERBOARD

PRODUCTION



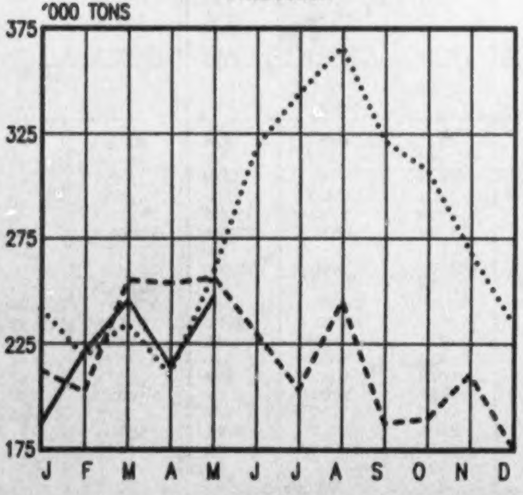
SOLID BLEACHED PAPERBOARD

PRODUCTION



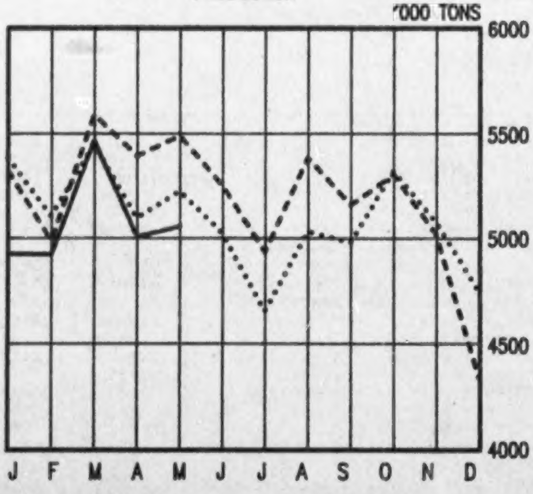
PAPERBOARD FOR EXPORT

PRODUCTION



TOTAL PAPER AND PAPERBOARD

PRODUCTION



1980 ······· 1981 ---- 1982 ——

PULP, PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 1981 Tons	YEAR 1981 $000	MARCH 1982 Tons	MARCH 1982 $000	APRIL 1982 Tons	APRIL 1982 $000	(1) Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (cords)	168331	9876	11055	494	5052	222	114564	-38.4
Pulpwood Chips	1684969	51400	197042	8649	138797	4596	1843611	0.4
Total All Imports	12580653	5459232	1035596	463992	915768	408171	11518591	-10.2
Wood Pulp, Total	4086698	1754318	296287	124739	306089	135968	3546810	-15.5
Waste Paper	79064	13405	6631	868	4876	548	71190	-14.7
Other Fibrous Materials	54376	19535	6876	2063	5180	1820	64358	31.4
Paper, Board & Products, Total	8340516	3671974	725802	336322	598624	269835	7836233	-7.6
Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board	8245075	3362125	717114	307951	592449	245819	7744185	-8.0
Paper, Prbd & Prds ex Cnst&WMB	7942336	3592451	702007	330971	573905	264510	7602728	-5.7
Paper & Paperboard, Only	7846896	3282603	693319	302599	566730	240494	7510681	-5.9
Paper, Total	7716263	3247849	684021	300142	560011	238715	7423411	-5.1
Newsprint	6977118	2824777	608475	261049	502627	207115	6660399	-6.5
Printing & Writing	638538	347116	67660	33033	49851	26044	685260	17.4
Uncoated Groundwood	458915	219697	37699	19141	36275	17088	427966	-1.2
Uncoated Book	114422	64874	13307	7441	8436	4766	132848	52.7
Coated Print.& Imprem. Par	38321	28765	4014	2786	3093	2335	53211	25.4
Bristols	910	656	47	54	14	17	393	-57.2
Writing and Similar Paper	12855	15478	11862	2802	1580	1235	60788	502.4
Thin (except Cigarette)	12015	17647	731	810	454	604	10054	-0.5
Total Pkg & Other Paper	93566	71127	7435	5782	7074	5254	72369	-36.2
Unbleached Kraft Paper	32532	14872	1928	975	2927	1291	28833	-38.1
Other Pkg. & Indust. Paper	61034	58254	5507	4807	4147	3963	43536	-34.8
Tissue	7040	4830	452	279	459	303	5383	-17.4
Paperboard, Total	130633	34754	9298	2457	6719	1779	87270	-43.9
Test or Containerboard	48169	12072	3497	813	1640	388	23088	-69.9
Semi-Chemical Corrugating	52468	11695	3123	654	3100	669	33746	-35.4
Other Paperboard	29997	10987	2678	990	1980	722	30435	14.0
Convtd Paper&Paperbd Products	95440	309849	8688	28372	7175	24015	92048	12.1
Paper Products, Total	87414	293726	7780	26346	6502	22542	82051	9.3
Paperboard Products, Total	8027	16123	908	2026	673	1474	9997	41.9
Wet machine Board	1684	1185	112	87	146	91	1578	12.7
Construction Paper & Board	396496	78337	23684	5265	25572	5234	231926	-46.7
Notes								
Other: No Weight Avail. ($000)		125935		10566		8720	108418	-21.9
Total Imports Incl. Other($000)		5585187		474557		416891	5305538	-4.6

EXPORTS

							(1)	
Pulpwood, Roundwood (cords)	188598	10555	4315	206	6460	413	72009	-47.0
Pulpwood Chips	3846049	314037	235070	19245	238023	19519	3068178	-19.8
Total All Exports	10663148	4905814	898871	411303	854849	382031	9768491	-12.3
Wood Pulp, Total	3677635	1661311	319214	138861	316037	138105	3477159	-4.7
Cotton Pulp and Other Pulp	131910	85195	7804	6115	9137	6401	104742	-26.7
Waste and Old Paper	2212549	268526	163410	19138	186231	21315	2037111	-15.0
Paper, Board & Products, Total	4641054	2890782	408443	247189	343444	216210	4149479	-16.3
Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board	4033988	2079837	364349	178196	299128	144786	3641072	-15.2
Paper, Prbd & Prod ex Cnst&WMB	4561410	2853148	401829	243493	339441	214300	4086822	-15.9
Paper & Paperboard, Only	3954344	2042303	357735	174500	295125	142876	3578415	-14.8
Paper, Total	1008409	846775	85811	67125	65456	53266	917801	-12.5
Newsprint	270460	139702	30528	14302	18615	8521	314600	51.9
Printing & Writing	383317	354808	23525	22056	19774	19971	257788	-39.4
Uncoated Groundwood	119673	91966	3089	4516	3431	3077	61245	-49.3
Clay Coated Paper	88597	78328	6843	5739	7358	6180	78659	-19.5
Uncoated Free Sheet	116752	119591	7282	7235	5934	6342	74026	-43.5
Other Printing & Writing	58295	64723	4310	4567	3052	4362	43859	-42.3
Total Pkg. & Other Paper	302887	304623	29710	28494	25227	22513	320752	-6.7
Unbleached Kraft	110801	50980	6481	3066	8995	3797	93055	-32.9
Other Pkg. & Indust. Paper	192086	253643	23230	25428	16232	18715	227697	11.0
Tissue	51745	47842	2049	2273	1839	2261	24660	-66.2
Paperboard, Total	2945935	1195528	271924	107374	229670	89610	2660615	-15.5
Solid Wood Pulp	2772413	1110744	259055	100705	218040	83957	2525266	-12.8
Total Linerboard	1973487	660285	181369	55365	148085	43745	1724119	-15.8
Bleached Kraft Linerboard	151979	52546	7194	2778	4091	1624	61044	-69.8
Unbleached Kraft Linerbd	1821509	607739	174175	52587	143995	42121	1663075	-9.9
Other Unbleached Kraft	148855	63341	11378	5266	18616	7942	182434	-0.5
Other Bleached Kraft	584250	367530	57235	37402	47360	31143	544788	-9.3
Semi-Chemical Corrugating	65821	19588	9073	2671	3980	1126	73915	12.6
Recycled Paperboard	173522	84784	12868	6670	11629	5654	135349	-46.3
Convtd Paper&Paperbd Products	607066	810845	44094	68993	44316	71424	508407	-23.1
Paper Products, Total	362337	580602	29258	52909	28784	53341	315910	-15.4
Paperboard Products, Total	244729	230243	14836	16084	15532	18084	192497	-33.1
Wet Machine Board	10812	7039	532	325	649	359	8030	-32.3
Construction Paper & Board E	68832	30595	6082	3371	3354	1551	54627	-35.7
Notes								
Other: No Weight Avail. ($000)		11235		643		745	9157	9.5
Total Exports Incl. Other($000)		4917049		411946		382776	4465020	-11.3

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES
1967 = 100

	1980	1981	FEB.	MARCH	APRIL	MAY	Annual Rate Y-T-D 1982	% Change from same Period Last Year
Pulp, Paper and Products except Building Grades	250.8	270.8	277.0	277.3	278.4	275.4	278.4	3.8
Pulp Paper & Products, ex. Building Grades & ex Waste Paper #	251.3	272.4	279.5	278.8	278.8	278.0	278.8	4.3
Total Wood Pulp	380.3	397.1	412.8	414.1	392.3	398.2	405.5	3.5
Total Paper	256.8	278.8	289.5	289.5	291.7	288.8	289.7	5.8
Total Paper, exc. Newsprint	248.3	[illegible]	282.1	281.6	280.4	278.4	280.8	6.1
Newsprint	279.7	307.5	316.8	318.1	330.0	324.0	321.1	8.4
Total Paperboard	234.8	258.1	261.4	261.1	261.2	258.8	260.4	2.3
Total Paper and Paperboard #	248.9	273.1	280.7	280.8	282.1	278.4	280.5	4.7
Converted Products	238.5	258.8	284.9	285.5	285.0	284.7	284.8	4.2
Waste Paper	208.7	175.7	128.8	129.2	128.1	121.5	126.6	-30.8
All Commodities	268.8	293.4	298.5	297.9	297.8	298.8	298.2	2.8
Industrial Commodities	274.8	304.1	311.4	311.0	309.8	309.5	310.7	3.8

SOURCE: Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor   # Computed by API

	Production	Imports	Exports	New Supply	Real Gross National Product	Ratio NS/RGNP
	000 Tons				$ Billion '72 Prices	000 Tons
1972	53,886	7,567	3,019	58,434	1,185.9	49.3
1973	56,383	8,019	2,965	61,437	1,255.0	49.0
1974	55,926	7,970	3,720	60,176	1,248.0	48.2
1975	48,147	6,165	3,050	51,262	1,233.9	41.5
1976	55,150	7,042	3,388	58,804	1,300.4	45.2
1977	56,823	7,293	3,171	60,945	1,371.7	44.4
1978	58,732	8,781	3,301	64,212	1,436.9	44.7
1979	61,319	8,738	3,610	66,447	1,483.0	44.8
1980	61,143	8,304	5,148	64,299	1,480.7	43.4
			Annual Rates*			
1981R						
1st Qtr.	63,244	8,095	4,743	66,596	1,516.4	43.92
2nd Qtr.	62,540	8,067	5,038	65,569	1,510.4	43.41
3rd Qtr.	63,280	7,263	4,465	66,078	1,515.6	43.59
4th Qtr.	60,006	8,344	3,999	64,351	1,498.4	42.95
Year	62,267**	7,942	4,561	65,648	1,510.3	43.47
1982						
1st Qtr.	60,924	7,841	4,091	64,674	1,484.5	43.57
April-May	58,463	6,887***	4,073***	61,277	1,486.7	41.22
1st 5 Months	59,940	7,459	4,084	63,315	1,485.4	42.62

* Production data seasonally adjusted
R - Revised

** Average of quarterly data
*** April rate

Continued from Page 2

on data available from the Bureau of Census, while the current figures reflect information on production of this grade as reported to the Division by API members. A table showing the revised monthly 1981 data is available on request from the API Economics Department.

Foreign Trade

Both imports and exports of pulp, paper, paperboard and products are feeling the effects of recession. Imports of paper and paperboard, as shown in the table on page 9, were at a rate of 7.5 million tons per year in the first four months of 1982, 6% below the year-earlier rate, while exports, at 3.6 million tons per year, were down 15%. Imports of wood pulp this period were down about 15%, but exports, according to Census, were down only 5%. This export rate is consistent with the API data on exports of paper grade chemical market pulp, down 4% from their year-ago level in the first four months of 1982.

The recession evident in the foreign markets for U.S. paper has reversed the recent uptrend in paper exports. For example, exports of paper in the first four months of 1982 were down 12.5% from the year-ago total, reflecting a 39% decline in the printing and writing paper exports and a 33% decline in exports of unbleached kraft paper. However, newsprint exports continued to increase, with the rate in the first four months of 1982 at 315,000 tons per year, 52% above its year-ago level. In addition, exports of packaging papers(other than unbleached kraft)and special industrial papers, at 228,000 tons per year, were 11% over their year-ago total.

In dollar terms, the value of exports in the first four months of 1982, at $4.47 billion per year, was 11% below its corresponding year-ago rate.

New Supply

The table on the bottom of page 10 traces the trends in new supply of paper and paperboard, and compares them with the changes in real gross national product. The 1981-1982 production data are revised from those shown in the May 1982 issue of the Monthly Statistical Summary, largely reflecting the changes in production of printing/writing papers noted above in the discussion of paper production.

The new supply pattern more or less followed the trend of business. New supply remained fairly flat throughout the first three quarters of 1981, at a rate of about 66 million tons per year. Relative to GNP, it also moved along a flat trend, averaging about 43,600 tons per billion dollars of real GNP. New supply dropped in the fourth quarter, but not as fast as production; imports rose significantly while exports fell 10%. The fourth quarter new supply averaged 64.4 million tons per year; relative to GNP it dropped just below the 43,000 tons per billion dollar level. For 1981 as a whole, revised data show new supply at 65.65 million tons, equivalent to 43,500 tons per billion dollars of real GNP. This

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compared favorably to the 1980 rates, but was down from the 44,600 tons per billion dollars average of the 1977-79 period.

Along with production, new supply strengthened in the first quarter of 1982 as imports declined while exports showed a moderate increase. Although the rate was only 64.7 million tons per year, the decline in real GNP brought the ratio of new supply to GNP to 43,600 tons.

The April/May calculations shown in the table on page 10 include the arithmetic assumption that the rate of imports and exports in April held flat in May. On this assumption, new supply dropped to 61.3 million tons per year, while GNP showed a small gain; the ratio is estimated at only 41,200 tons per billion dollars for the period, which was below the average of the 1975 recession year, but above the second quarter 1975 low of 39,800 tons per billion dollars. As in 1975, this pattern strongly suggests that inventories of paper and board products held by consumers are being reduced, setting the stage for a potentially strong upsurge in the later months of 1982, if business activity recovers.

Capital Expenditures

In its latest report on plant and equipment expenditures, the Department of Commerce noted that U.S. business, responding to the pressures of reduced profitability and liquidity, reduced plans to increase capital expenditures in 1982 from 7.3% to only 2.2%, which translates to a 1981-1982 decline of 2.4%, when adjusted for changes in prices. Expenditures by manufacturing companies in terms of current dollars is expected to show a 0.4% gain; after price adjustment the expenditures represent a decline of 3.5%.

The new data show that paper and allied products companies have reduced their expenditure plans in 1982 from the previously published level. The report shows these companies expect to spend $5.91 billion on new plant and equipment in 1982, a 12% reduction from the $6.72 billion spent in 1981 and also a 12% reduction from the 1982 projection made three months earlier. In real terms, the 1981-1982 decline amounts to an estimated 14%. The Department of Commerce also reported that the carry-over of paper capital projects at the end of the first quarter of 1982 amounted to $6.6 billion, nearly 20% above the $6.03 billion carry-over at the end of the first quarter 1981, indicating possible delay of existing plans rather than outright cancellation.

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
280 Madison Avenue
New York, New York 10016

JUNE 30, 1982

	PRODUCTION (000 TONS)					
	May 1982	April 1982	May 1981	Jan - 1982	- May 1981	% Change 82/81
PAPER GRADES	P	R				
Newsprint	424	437	443	2198	2124	3.5
Printing & Writing	1265	1306	1347	6480	6682	-3.0
Uncoated Groundwood (s)	118	122	122	583	617	-5.4
Coated Paper (s)	410	409	410	2049	2062	-0.6
Uncoated Free Sheet Paper (s)	630	660	703	3282	3405	-3.6
Thin Paper (s)	29	28	29	144	145	-0.4
Cotton Fiber Paper (s)	10	10	10	52	52	0.6
Bleached Bristols (s)	67	77	74	370	402	-7.9
Tissue Paper	390	359	396	1874	1886	-0.6
Total Pkg & Other Paper	395	426	478	2223	2445	-9.1
Unbleached Kraft Packaging & Indl. Converting (s)	270	288	342	1536	1713	-10.3
Other Paper *	125	138	136	688	732	-6.1
TOTAL PAPER	2475	2527	2653	12775	13136	-2.7
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1297	1227	1424	6302	6816	-7.5
Unbleached Kraft Linerboard	1195	1145	1318	5834	6335	-7.9
Other Unbl. Kraft Paperboard	102	82	106	468	481	-2.8
Semichemical Paperboard	390	369	424	1879	2078	-9.6
Bleached Paperboard	329	317	358	1591	1702	-6.5
Recycled Paperboard	571	571	634	2853	3064	-6.9
TOTAL PAPERBOARD	2587	2484	2840	12625	13661	-7.6
TOTAL PAPER AND PAPERBOARD	5062	5011	5494	25400	26797	-5.2

WOOD PULP (ALL GRADES)	April 1982	March 1982	April 1981	Jan 1982	-April - 1981	% Change 82/81
Dissolving & Special Alpha	97	122	108	424	450	-5.6
Bleached Sulphite	109	122	114	445	489	-9.1
Unbleached Sulphite	25	32	35	113	135	-16.6
Bleached & Semi-Bl. Sulph.	1703	1775	1718	6756	6755	0.0
Unbleached Sulphate	1537	1732	1761	6300	6724	-6.3
Semichemical	316	350	343	1291	1372	-5.9
Groundwood and Thermo-Mechanical	421	464	446	1740	1771	-1.7
TOTAL PULP DIVISION DATA	4208	4597	4525	17069	17695	-3.5

(s) - Shipments R - Revised E - Estimate
P - Preliminary * - Revised series based on A.P.I. data.

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June 30, 1982

	Full Year		INDUSTRY DATA 1982			Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1980	1981	March	April	May		
Total Production (API)........| excluding |...	61143	62218	5472	5011	5062	60880	-5.2
Total Seasonally Adjusted....|construction|...			5073	4903	4841	59940	-5.2
Imports (including Products).| and wet |..E	8302	7942	702	574	600	7522	-7.8
Exports (including Products).| machine |..E	5148	4561	402	339	350	4109	-16.9
Apparent Consumption.........| grades |...	64297a	65597Rb	5373	5138	5081	63353c	-4.6
Paper Production % Tonnage Capacity...........	92.4s	92.1s	91.0	86.0	81.7	87.4sh	-
Paperboard Production % Tonnage Capacity......	91.8s	91.2s	88.2	83.4	84.3	85.4s	-
			February	March	April		
IMPORTS.....|Including Construction and |.....	8778	8341	611	726	600	7839	-7.8
EXPORTS.....| WMB Grades (excl. HPB) |.....	5214	4641	323	408	343	4150	-16.3
MARKET WOOD PULP PRODUCTION - Tons (000).........	6488	6190	538	536	494	5978	-3.2
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)....	50737	51985	4198	4597	4208	51207	-3.5
WOOD PULP IMPORTS - TONS (000)..................	4051	4087	310	296	306	3547	-15.5
WOOD PULP EXPORTS - TONS (000)..................	3806	3678	303	319	316	3477	-4.7
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS | excluding |			February	March	April		
Wood Pulp............|consumption for|.....	49476	50827	4037	4395	4298	48830	-3.9
Waste Paper..........|construction & |.....	13551	14022	1111	1235	1157	13834	-3.4
TOTAL..........| WMB grades |.....	63027	64849	5148	5630	5455	63764	-3.8
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	80522	79604	6509	7018	6791	80142	-0.9
EMPLOYMENT (000)			March	April	May		
Paper and Allied Products..........Total......	694.0	687.8	665.1	663.1	660.7	664.8	-3.1
Pulp, Paper and Board Mills........Total.....E	268.0	266.6	257.5	256.2	254.6	257.2	-3.2
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products......................	7.85	8.80	9.03	9.12	9.17	9.07	9.0
Pulp, Paper Mills.............................E	9.15	10.06	10.51	10.61	10.62	10.35	9.1
Paperboard Mills..............................E	9.28	10.23	10.74	10.82	10.96	10.78	8.9
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1981 Q4	1982 Q1	1982 Q2		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	8.80	8.72	6.56	6.05	5.78	5.91y	-12.1
INDEX OF OUTPUT PER MAN-HOUR (1977=100).........			March	April	May		
|IN PULP, PAPER |...Production Workers.........	108.1	109.1	113.3	108.6	109.4	110.6	-0.6
|AND BOARD MILLS|...All Employees..............	106.6	107.9	111.2	107.0	106.3	108.7	-1.1
PAPER AND ALLIED PRODUCTS (Million $)			February	March	April		
Industry Shipments (Dept. of Commerce)*.......	71738	77784	6520	6480	6386	77718	-0.0
Pulp, Paper and Paperboard*................	31952	34181	2822	2877	2716	33636	-0.8
Inventories (End of Period) - Total Industry*.	7798	8817	8849	9041	8806	8806	8.0
Pulp, Paper and Paperboard*................	2794	3301	3378	3380	3363	3363	13.0
			1981 Q3	1981 Q4	1982 Q1		
Sales (Corporations Only, FTC)................	58250	62502	16024	15356	N.A.	N.A.	N.A.
Earnings (Corporations Only, FTC).............	2800	3106	634	829	N.A.	N.A.	N.A.
Depreciation (Corporations Only, FTC).........	2026	2253	584	555	N.A.	N.A.	N.A.
Net Worth (Corporations Only, FTC)............	24396	26452	26008	26452	N.A.	N.A.	N.A.
PRICE INDEXES (Bureau of Labor Stats)1967=100			March	April	May		
Pulp, Paper & Products, ex. Building Grades...	250.6	270.8	277.3	276.4	275.4	276.4	3.9
Wood Pulp.....................................	380.3	387.1	414.1	382.3	388.2	405.5	3.5
Waste Paper...................................	208.7	175.7	129.2	128.1	121.5	126.6	-30.6
Paper...	258.8	279.8	289.5	291.7	288.8	289.7	5.8
Paperboard....................................	234.8	258.1	261.1	261.2	258.8	260.4	2.3
PAPER DEMAND (INDEXED: 1967=100)			March	April	May		
Total Paper Production *......................	143.9	148.1	146.6	143.9	137.3	144.5	-2.7
Paper New Supply *............................	138.1	137.9	138.1	131.5	127.6	133.8	-3.5
Total End - Use Index *......................	146.3	150.3	150.8	150.0	149.1	150.1	0.3
Production of Nondurable Goods *...(19%)..	161.2	164.7	157.3	156.6	156.7	156.7	-5.5
Disposable Income (Constant $) *...(23%)..	151.0	154.3	157.1	157.9	157.1	156.9	2.2
Total Printing and Publishing *...(58%)..	139.5	144.0	145.9	144.7	143.5	145.2	1.7
Trend Factor	-------	-------	-------Not	Available	-------	-------	-------
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *................	135.4	137.1	132.3	125.7	128.6	130.1	-7.8
Production for Domestic Use	128.3	132.9	126.5	121.3	122.5	125.4	-7.8
Total End - Use Index *.....................	146.1	149.3	140.8	140.7	141.0	140.7	-6.4
Production of Consumer Goods *...(60.48%)	145.4	147.8	141.5	142.6	143.8	141.9	-4.5
Production of Equipment *...(6.62%)	145.2	151.8	145.8	144.1	142.6	145.4	-3.2
Production of Materials *...(32.88%)	147.8	151.5	138.6	136.4	135.5	137.6	-10.5
Trend Factor	-------	-------	-------Not	Available	-------	-------	-------
NEWSPRINT MARKETS			February	March	April		
Consumption by Publishers - Tons (000).........	11121	11205	854	957	951	10900	0.8
Newspaper Pub. and Printing Empl. Total(000)..	422.8	421.9	426.1	425.2	424.0	424.9	1.8
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)..........	118372	122136	8878	10768	10487	114783	0.2
WHOLESALERS SALES AND INVENTORIES (Million $)(J)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	21296	24381	1802	2186	2016	24182	2.4
Inventories (End of Period)	1849	2085	2108	2078	2054	2054	6.9
Paper Only..............................Sales	15843	17831	1383	1616	1510	17804	3.1
Inventories (End of Period)	1227	1383	1408	1437	1430	1430	13.8
RETAIL TRADE (Million $)			March	April	May		
Total Retail Sales *.........................	953984	1044587	87277	87899	88236	1048726	1.4
Nondurable Goods Stores Sales *..............	656231	718282	60319	60141	60780	725011	2.6
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	147.0	150.9	141.7	140.8	140.3	141.2	-7.1
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	268.8	293.4	297.9	297.9	298.6	298.2	2.8
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	246.8	272.4	283.1	284.3	287.1	284.1	7.2
			February	March	April		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	313.5	333.4	327.4	327.1	328.4	328.4	4.7
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$).			1981 Q3	1981 Q4	1982 Q1		
G.N.P. or Expenditure - Current $.............	2626.1	2925.5	2965.0	2998.3	2990.4	2990.4	5.1
G.N.P. or Expenditure - 1972 $................	1480.7	1510.3	1515.8	1498.4	1484.5	1484.5	-2.1

lb/capita

Par&Parbd	Othr		Totl	Popul(mil)
.a - 565	+ 26	=	591	227.7
.b - 571	+ 21	=	592	229.7
.c - 547	+ 15	=	562	231.5

.E - Last month estimated by API
.e - estimated by API

s - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
J - Census unpublished data; standard dev. = 6-8%
N.A. - Not Available
P - Preliminary
Q - Quarter

R - Revised
RS - Revised Series
y - Full year estim. by U.S. Dept. of Com.
* - Seasonally Adjusted

A2500-2 8/11/82

Paper
Paperboard
& Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 60 - No. 7

Paper and Paperboard: Impact of Recession

The recessionary forces in the U.S. continued their impact on the paper industry in the second quarter of 1982. Production declined to a seasonally adjusted rate of 57.8 million tons per year, 5.3% below the 61.0 million tons per year rate achieved in the first quarter of the year and 8.8% below the cyclical high reached in the third quarter of 1981. The negative impact continued as the quarter progressed, with the May/June 1982 annual rate averaging 57.2 million tons per year.

New domestic supply (production plus imports less exports) which had maintained a fairly firm relationship with real GNP during 1981 and the first quarter of 1982 declined faster than GNP during the second quarter, according to preliminary figures.

Close to 4[illegible],000 tons of paper and paperboard were supplied for each billion dollars of real GNP through the first quarter of 1982. New supply per billion dollars of real GNP fell to 41,440 tons in the second quarter, however, the lowest level since the 1975 recession.

Inventory reductions continued to dominate the national economy in the second quarter and this affected the demand for paper and paperboard. The sharp inventory contraction of the first quarter moderated in the second, but still confirmed the need of business to convert inventories into cash.

Consumer spending, particularly for non-durable goods, advanced during the second quarter but this was the only encouraging news.

The GNP figures reflect the annual revisions by the Department of Commerce and are now about 0.5% lower than the previously reported data. The preliminary data for the second quarter show a modest increase in real GNP, at an annual rate of 1.7%.

Goods output, as measured by manufacturing production, was more in line with that of paper and paperboard production. Manufacturing production peaked

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in the third quarter of 1981, fell sharply in the fourth quarter and continued to decline in the first quarter of 1982. During the second quarter manufacturing production declined at a more moderate rate and was at an index level of 138.1 (1967=100), 1.2% (4.8% per year) below the first quarter 1982 level and 9.4% below the second quarter 1981 level.

The table on the bottom of page 10 presents the revised GNP data and the ratios of new supply to real GNP for the years 1976-1981, together with quarterly data for 1981 and the first two quarters of 1982. The table also shows data on manufacturing production for these same periods, together with the ratio of new supply to the index of total manufacturing production.

Preliminary data for July reveal that many paper and paperboard producers are extending their normal seasonal shutdowns.

Despite the tax cuts, consumer spending in July remained sluggish as interest rates continued to discourage installment buying. A lowering of interest rates which began in late July will contribute to a faster pace of consumer spending later in the year.

Production By Grade

The impact of the recession was fairly well distributed throughout the grade structure. For example, total paper production in the second quarter of 1982, at 29.1 million tons per year, was 5.7% below its first quarter level, and 6.2% below the 1981 high of 31.0 million tons. Paperboard production, at 28.7 million tons per year was 4.8% below its first quarter level, but 8.2% below its 1981 total.

Paper: Among the paper grades, newsprint production continued to exceed its year-ago level, with the six-month total 2% ahead of the year-ago rate. However, newsprint inventories at paper mills continue to be fairly high and some weakness is becoming evident in newsprint output.

Printing and writing paper shipments were down 3.4% from year-ago levels during the first six months of 1982. However, both orders and shipments for the important uncoated free sheet papers, which had shown a relatively good recovery in the early months of the year from their 1981 year-end low, moved again in a general downtrend during the second quarter, with orders running just a little below shipments. The backlog of unfilled orders was 33% below its year-ago level as of the end of June 1982. Groundwood paper shipments were 6% below their year-ago total in the first half of 1982. However, new orders were above production during most of the second quarter so that the backlog of unfilled orders is in a fairly strong uptrend. In fact, the level reached at the end of June was 10.6% above its year-ago level. Coated papers are showing the strongest trend among the printing paper grades, with the six-month 1982 shipments total within 0.5% of its year-ago level. While the unfilled order backlog was down by 16% from its June 1981 level, the trend of unfilled orders in the last two months has been flat, with orders and shipments in balance during the month of June.

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PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS

(Thousands of Tons)

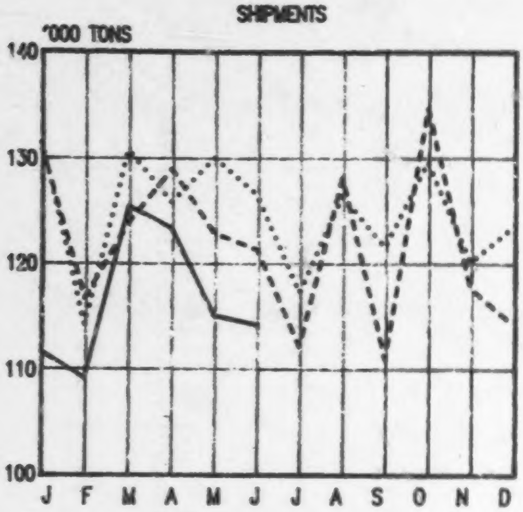
	YEAR		MARCH	APRIL	MAY	JUNE	Annual Rate Y-T-D	% Change From same Period Last Year
	1980	1981	1982	1982	1982	1982	1982	
PAPER					R	P		
Newsprint - Production	4672	5239	463	437	424	423	5240	2.0
- Shipments	4667	5220	455	413	414	420	5129	0.6
Printing & Writing	15577	15736	1399	1309	1270	1258	15518	-3.4
Groundwood Paper - Shipments	1498	1463	126	123	115	114	1398	-6.2
- New Orders	1475	1449	123	143	118	112	1446	-1.5
- Unfilled Orders	110	100	98	115	116	113	113	10.6
Coated Paper - Shipments	4673	4940	437	409	407	415	4922	-0.5
- New Orders	4753	4853	407	407	381	415	4834	0.3
- Unfilled Orders	391	360	332	334	304	302	302	-16.0
Unctd Free Sheet - Shipments	8016	7898	713	661	639	609	7803	-4.2
- New Orders	7726	7735	713	639	616	611	7640	-4.2
- Unfilled Orders	548	370	330	307	284	283	283	-32.8
Thin Paper - Shipments	333	336	32	28	29	31	351	-0.4
Cotton Fiber Paper - Shipments	126	125	13	10	11	10	128	0.6
Bleached Bristols - Production	33[illegible]	974	79	78	69	79	917	-8.0
Tissue Paper - Production	4375	4503	406	357	359	355	4395	-3.1
Total Packaging & Other Paper *	5570	5550	497	426	395	411	5269	-8.9
Unbl. Kraft Paper - Shipments	3962	3873	343	288	270	292	3656	-9.3
Other Paper - Production *	1609	1678	154	138	125	119	1613	-7.8
TOTAL PAPER-Production-Unadj.	30195	31028	2765	2528	2449	2447	30423	-3.5
-Production-S.A.			2563	2513	2370	2389	29975	-3.4
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	23881	24231	2097	1913	2005	1890	23300	-7.9
Unbl. Kraft Linerboard (1)	14232	14540	1269	1145	1197	1127	13927	-7.9
Production for Export	2380	1887	180	152	181	167	1951	-4.3
Other Unbl. Kraft Paperboard	1063	1062	101	82	99	77	1083	-6.9
Semichemical Paperboard	4723	4719	391	369	379	376	4489	-9.0
Production for Export	322	155	14	15	18	17	182	0.2
Solid Bleached Paperboard	3862	3910	336	317	329	310	3801	-6.5
Production for Export	545	557	50	45	48	49	552	-2.7
Recycled Paperboard	7071	7001	614	571	565	540	6773	-7.8
Production for Export	83	24	1	2	1	1	17	-48.6
TOTAL PAPERBOARD-Prod.-Unadj.	30952	31232	2711	2484	2569	2430	30073	-7.8
- Containerboard Prod.(Dom. Use)	18070	19040	1623	1496	1539	1459	18046	-8.3
- Boxboard Prod.(Dom. Use) (2)	5477	5544	482	444	448	426	5353	-8.5
- All Other P'bd Prod.(D.U.) (2)	4075	4026	360	330	335	309	3972	-7.1
- Total Paperbd Prod. for Export	3329	2622	246	214	247	235	2702	-4.2
TOTAL PAPERBOARD PROD. - S.A.			2515	2391	2428	2347	29394	-7.8
TOTAL PAPER AND PAPERBOARD								
Production - actual	61147	62260	5477	5012	5018	4876	60485	-5.7
Production - S.A.			5078	4904	4789	4737	59370	-5.7

(1)Includes all exports of kraft paperboard.
(2)Data for unbl. kraft folding boxboard incl. in All Other P'bd.
* Revised series based on A.P.I. data, beginning January, 1981.

P Preliminary
R Revised
S.A. Seasonally Adjusted

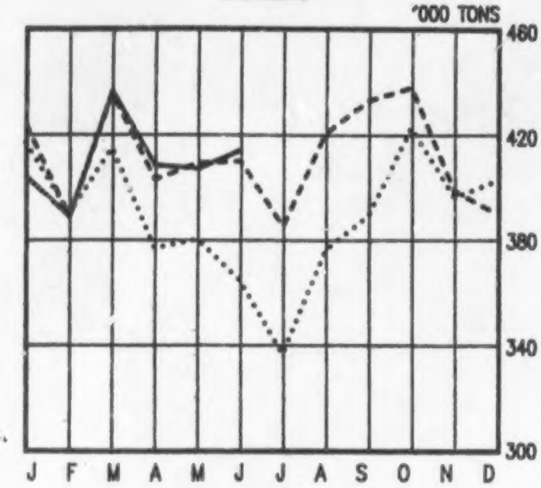
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



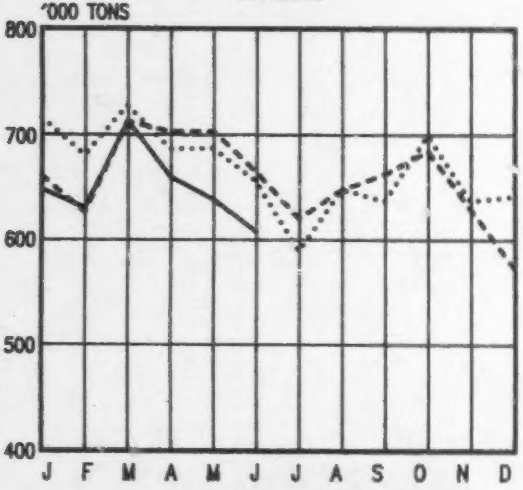
COATED PAPER

SHIPMENTS



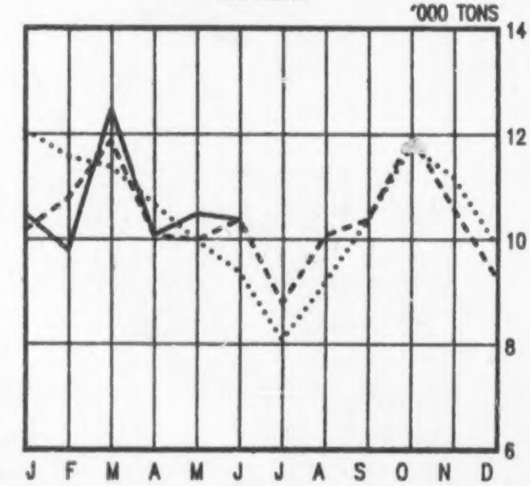
UNCOATED FREE SHEET PAPERS

SHIPMENTS



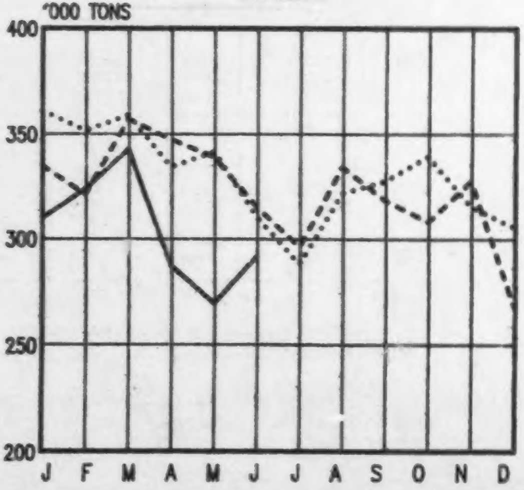
COTTON FIBER PAPER

SHIPMENTS



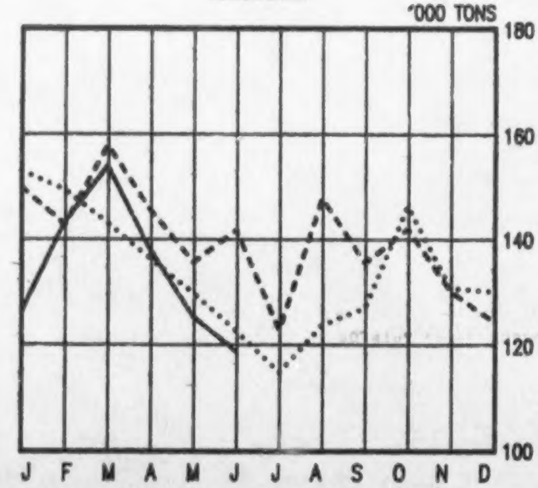
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



COATED PAPER

PRODUCTION



1980 ········ 1981 - - - - - 1982 ———

WOOD PULP STATISTICS
(Thousands of Tons)

	YEAR 1980	YEAR 1981	FEB. 1982	MARCH 1982	APRIL 1982	MAY 1982	Annual Rate Y-T-D 1982	% Change From same Period Last Year
TOTAL WOOD PULP					R	P		
Total Wood Pulp - Production	50737	51985	4198	4597	4209	4266	51205	-4.3
- Imports	4051	4087	310	296	306	302	3563	-18.1
- Exports	3806	3678	303	319	316	326	3565	-5.9
- New Supply	50982	52394	4205	4574	4199	4241	51202	-5.3
Dissolving Pulp - Production	1508	1365	106	122	97	108	1277	-7.4
- Imports	263	249	11	11	23	10	204	-20.6
- Exports	769	784	42	62	52	68	660	-14.4
- New Supply	1002	830	75	71	68	48	821	-5.1
Paper Grades Chemical Pulp - Production	40436	41376	3379	3660	3375	3400	40833	-4.3
- Imports	3615	3655	287	267	276	279	3209	-17.0
- Exports	2956	2870	260	256	263	256	2888	-3.5
- New Supply	41095	42161	3406	3671	3388	3423	41154	-5.5
Groundwood and Thermo-Mech. - Production	4767	5320	415	464	420	433	5215	-2.1
- Imports	173	183	12	19	7	12	150	-34.1
- Exports	81	24	1	1	1	1	18	-33.9
- New Supply	4859	5478	425	482	427	445	5347	-3.2
Semi-Chemical - Production	4026	3924	299	350	316	325	3880	-6.1
- Imports	0	0						
- Exports	0	0	------	Included	with	Groundwood	Pulp ------	
- New Supply	4026	3924	299	350	316	325	3880	-6.1
MARKET WOOD PULP								
Total Market Wood Pulp - Production	6488	6190	538	536	494	480	5534	-4.7
- Imports	2947	2923	228	201	229	168	2515	-13.9
- Exports	3513	3352	282	304	272	282	3184	-5.1
- New Supply	5921	5761	485	432	451	366	5266	-10.1
Dissolving Pulp - Production	1506	1337	120	122	97	90	1233	-6.1
- Imports	235	241	11	9	23	10	185	-32.3
- Exports	876	787	51	76	57	58	694	-10.0
- New Supply	865	791	79	56	63	42	724	-11.2
Paper Grades Chemical Pulp - Production	4913	4852	419	414	397	390	4702	-4.3
- Imports	2687	2634	215	188	199	156	2287	-13.5
- Exports	2588	2555	230	229	215	224	2489	-3.0
- New Supply	5012	4931	403	373	381	322	4500	-9.8
Groundwood Pulp and All Other - Production	69	1	0	0	0	0	0	-86.7
- Imports	26	49	3	4	7	2	43	-40.5
- Exports	50	10	0	0	0	0	0	-98.7
- New Supply	44	40	3	4	7	2	43	-20.2

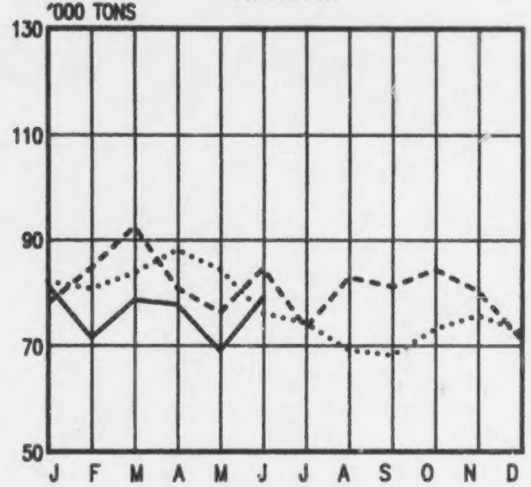
SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp & Raw Materials Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

FIBROUS RAW MATERIALS
(Thousands of tons)

	YEAR 1980	YEAR 1981	FEB. 1982	MARCH 1982	APRIL 1982	MAY 1982	Annual Rate Y-T-D 1982	% Change From same Period Last Year
CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	63027	64849	5149	5630	5455	5283	63690	-4.8
Total Wood Pulp	49476	50827	4037	4395	4298	4088	49755	-5.2
Waste Paper	13551	14022	1111	1235	1157	1195	13935	-3.6
INVENTORIES								
Total Wood Pulp at Pulp Mills	117	188	186	202	205	208	208	18.0
Market Pulp at Pulp Mills	239	388	410	403	418	426	426	36.7
Waste Paper at Paper &Bd. Mills	1008	1216	1120	1115	1049	1009	1009	-0.7
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	18	33	33	32	32	34	34	54.5

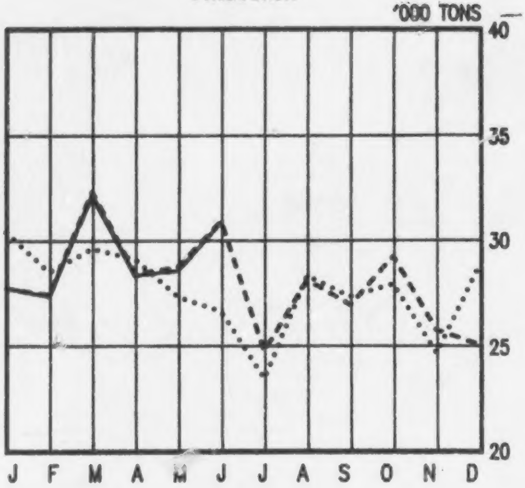
SOURCES: Wood Pulp Data, Pulp & Raw Materials Group, API. Waste Paper Data, Paper Recycling Committee, API
P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

BEST AVAILABLE COPY



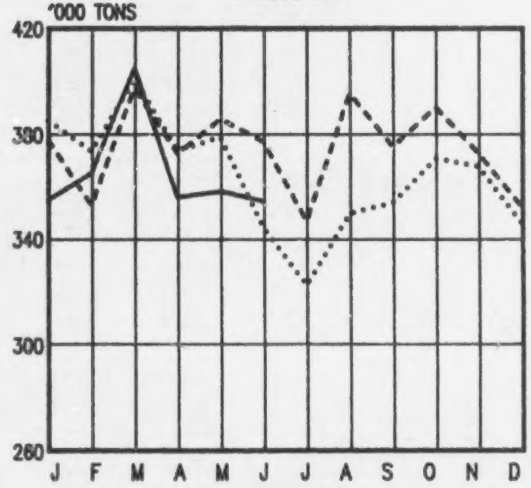
BLEACHED BRISTOLS

PRODUCTION



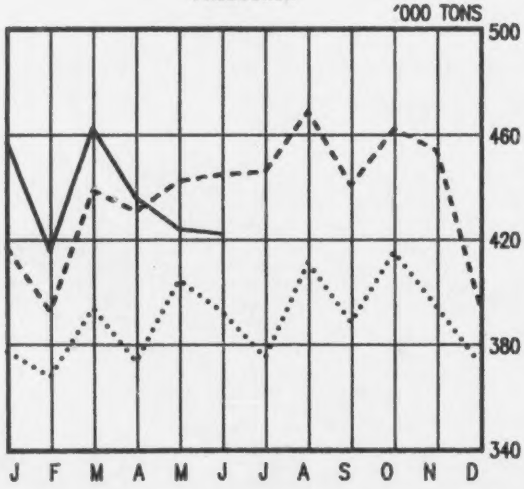
THIN PAPER

PRODUCTION



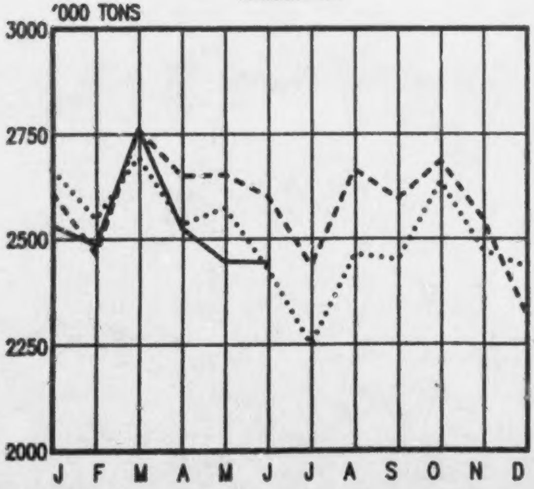
TISSUE PAPER

PRODUCTION



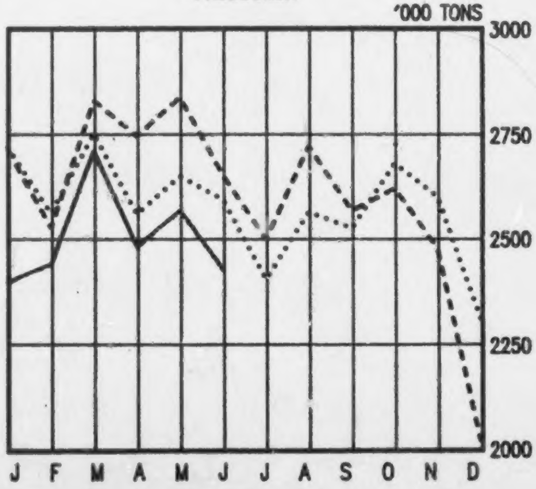
NEWSPRINT

PRODUCTION



TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION

1980······· 1981----- 1982 ———

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic Foot) Cords)

		YEAR 1980	YEAR 1981	FEB. 1982	MARCH 1982	APRIL 1982	MAY 1982	Annual Rate Y-T-D 1982	% Change From same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	81805	79547	6229	6999	6500	6241	76500	-3.6
	- Total Consumpt.	79574	79747	6509	7018	6791	6300	79234	-2.0
	- Residues *	29402	30590	2265	2573	2671	2504	29237	-6.0
	- Inventories	6285	6045	5343	5274	5074	4748	4748	-7.3
So. Atlantic	- Total Receipts	26742	24681	1947	2168	1972	1899	23407	-7.2
	- Total Consumpt	25743	24815	1964	2061	1949	1918	23779	-7.5
	- Residues *	8776	8770	650	763	683	622	7970	-9.9
	- Inventories	1158	1051	790	863	889	865	865	-6.6
Northeast	- Total Receipts	7710	7803	666	638	536	539	7241	-1.1
	Total Consumpt	7487	7712	624	626	670	618	7584	-2.6
	- Residues *	1649	1362	113	106	125	119	1349	-8.9
	- Inventories	724	635	696	702	568	482	482	-6.4
South Central	- Total Receipts	27509	27744	2090	2510	2281	2178	26405	-4.1
	- Total Consumpt	27074	27687	2275	2555	2347	2228	27665	-0.7
	- Residues *	8001	8923	657	744	778	680	8270	-11.2
	- Inventories	1830	1825	1475	1432	1393	1309	1309	-8.2
North Central	- Total Receipts	5514	5650	516	444	317	405	5203	-5.6
	- Total Consumpt	5292	5708	464	506	464	470	5642	-0.5
	- Residues *	1361	1439	99	107	98	125	1265	-12.2
	- Inventories	1210	1106	1176	1100	954	869	869	-24.0
West	- Total Receipts	14330	13669	1010	1239	1394	1220	14244	3.8
	- Total Consumpt	13978	13825	1182	1270	1361	1066	14563	5.5
	- Residues *	9615	10096	746	853	987	958	10382	3.5
	- Inventories	1363	1428	1206	1177	1270	1223	1223	9.9

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

	YEAR 1981 Tons	YEAR 1981 $000	APRIL 1982 Tons	APRIL 1982 $000	MAY 1982 Tons	MAY 1982 $000	Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	168317	9876	5052	222	9878	991	115358	-31.7
Pulpwood Chips	1684950	51394	138797	4596	120446	4090	1763957	-4.5
Wood Pulp, Total	3800713	1648868	238519	107952	295265	128148	3251935	-20.8
Waste Fibrous Materials, Total	120498	21239	8886	1408	7094	1294	110552	-10.1
Paper, Board & Products, Total	8037877	3282788	579129	242525	716049	313032	7753410	-6.7
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	8001585	3219080	575839	237129	712718	307104	7713564	-6.9
Paper Paperboard & Products	7675713	3210134	556249	237784	686409	307106	7522728	-4.6
Paper & Paperboard, Only	7639420	3146427	552959	232389	683078	301179	7482882	-4.7
Paper, Total	7509823	3112917	546308	230677	675419	299373	7395524	-3.9
Newsprint	6935975	2807549	499858	206080	617822	266974	6782414	-5.2
Printing, Writing & Rel.Pap.	482408	242844	39641	19994	52032	27803	544536	23.0
Pack. & Ind. Conv. Paper	92414	54433	6291	4190	4713	3835	61895	-35.1
Special Industrial Paper	2279	3639	78	138	228	334	1464	-32.6
Tissue Paper	6748	4452	440	275	624	427	5215	-19.9
Paperboard, Total	129597	3[illegible]310	6652	1712	7659	1806	87358	-44.5
Convtd Paper&Paperbd Products	36292	63708	3290	5395	3331	5928	39846	50.3
Wet Machine Board	1064	573	90	53	84	44	904	-7.4
Construction Paper & Board	361101	72080	22790	4688	29556	5882	229778	-46.1

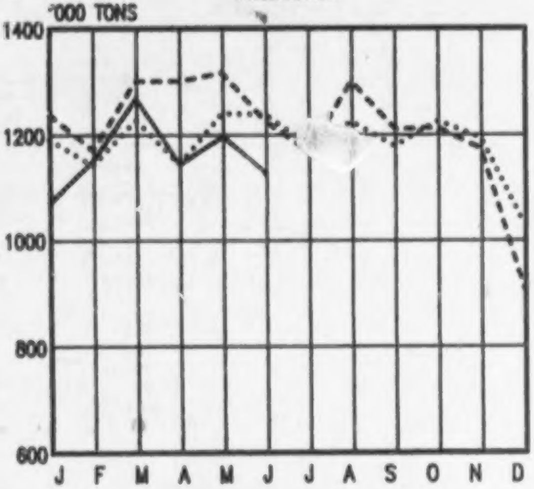
EXPORTS TO CANADA

	YEAR 1981 Tons	YEAR 1981 $000	APRIL 1982 Tons	APRIL 1982 $000	MAY 1982 Tons	MAY 1982 $000	Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	185312	10444	6359	408	17245	1243	97303	-28.3
Pulpwood Chips	38471	1525	909	42	3714	162	27980	-39.1
Wood Pulp, Total	118921	56740	7749	3732	13994	6081	126955	0.4
Cotton Pulp & Other Pulp	5900	3660	580	368	434	285	6480	-12.7
Waste Paper	356523	41185	25343	3038	25382	2951	260114	-27.3
Paper, Board & Products, Total	695892	504904	40575	32798	45720	35254	520970	-34.7
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board	527486	365270	28640	22348	33326	24405	381106	-38.8
Paper, Paperboard & Products	656327	489675	39197	32190	43318	34329	499214	-33.2
Paper & Paperboard, Only	487822	350041	27262	21741	30924	23479	359349	-37.3
Paper, Total	278136	247806	13731	15057	16202	16256	196231	-39.7
Newsprint	8435	6155	119	118	131	89	2347	-63.1
Printing, Writing & Rel.Pap.	162623	134132	8689	7520	9681	8349	115455	-41.2
Pack. & Ind. Conv. Paper	24365	17449	1387	962	1796	1228	17271	-35.4
Special Industrial Paper	75854	84471	3404	6302	3920	6353	56866	-34.6
Tissue	6858	5800	133	156	673	238	4292	-51.4
Paperboard, Total	209686	102235	13531	6684	14722	7223	163118	-34.2
Convtd Paper&Paperbd Products	168505	139634	11935	10449	12394	10850	139865	-19.9
Wet Machine Board	7201	4215	272	157	769	379	4621	-43.6
Construction Pap & Bd. E	32464	11014	1105	450	1633	546	17136	-58.6

SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

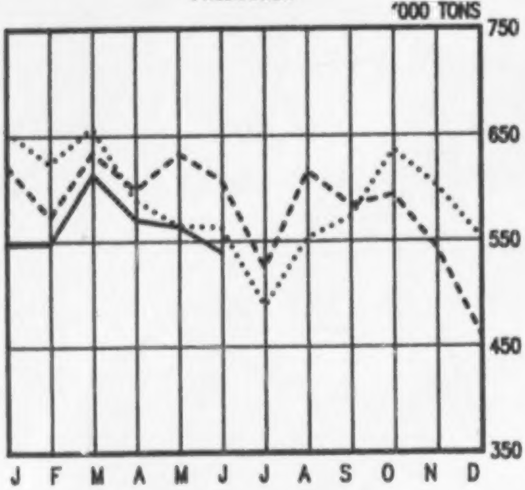
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



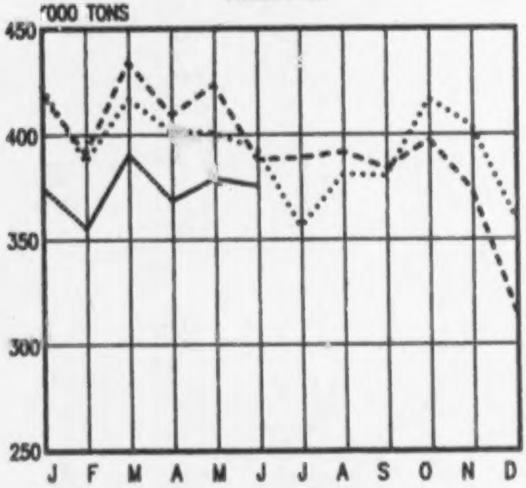
RECYCLED PAPERBOARD

PRODUCTION



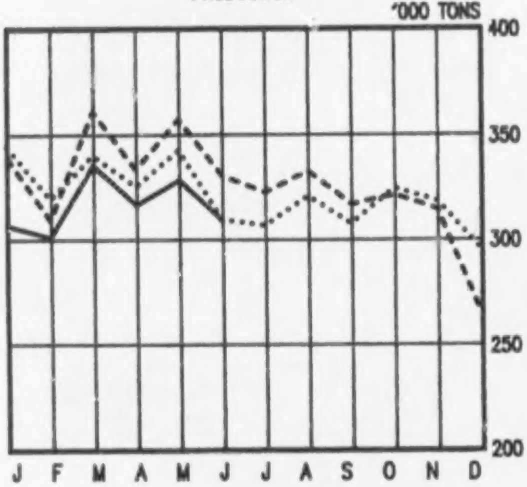
SEMICHEMICAL PAPERBOARD

PRODUCTION



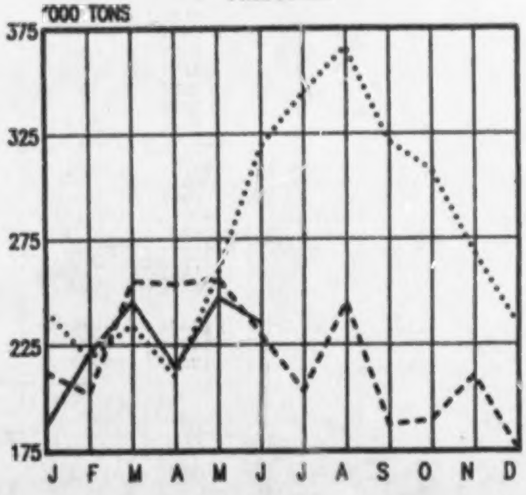
SOLID BLEACHED PAPERBOARD

PRODUCTION



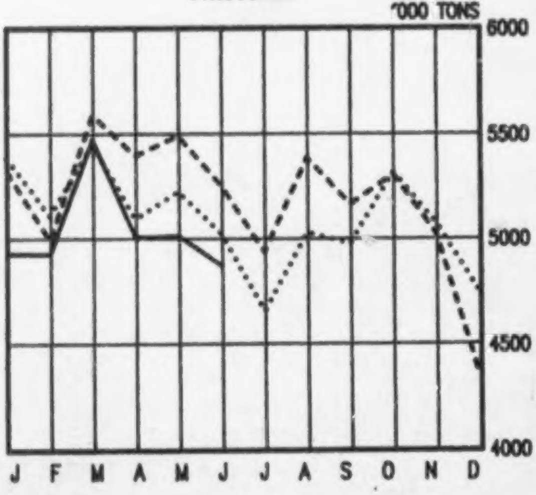
PAPERBOARD FOR EXPORT

PRODUCTION



TOTAL PAPER AND PAPERBOARD

PRODUCTION



1980········ 1981----- 1982 ———

PULP, PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 1981 Tons	YEAR 1981 $000	APRIL 1982 Tons	APRIL 1982 $000	MAY 1982 Tons	MAY 1982 $000	(1) Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (cords)	168331	9876	5052	222	9878	891	115358,	-31.7
Pulpwood Chips	1684869	51400	138797	4586	120446	4090	1763858	-4.5
Total All Imports	12560853	5438232	815768	408171	1056393	485887	11718971	-10.5
Wood Pulp, Total	4086698	1754318	306089	135989	302142	130797	3562589	-18.1
Waste Paper	79084	13405	4876	548	2230	154	62304	-28.9
Other Fibrous Materials	54376	18535	5180	1820	8370	2111	66774	32.7
Paper, Board & Products,Total	8340516	3871974	599624	269835	745651	352825	8027304	-6.7
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	8245075	3362125	592449	245819	736175	321637	7930924	-6.9
Paper, Ppbd & Prds ex Cnst&WMB	7942336	3582451	573905	264510	713430	346262	7763169	-4.7
Paper & Paperboard, Only	7846896	3282603	566731	240494	703954	315074	7666789	-4.9
Paper, Total	7716263	3247849	560011	238715	696215	313172	7578401	-4.1
Newsprint	6977118	2824777	502627	207115	618981	267747	6818274	-5.2
Printing & Writing	638538	347116	49851	26044	69715	39343	684280	14.1
Uncoated Groundwood	458915	219697	36275	17088	49929	26258	462203	4.9
Uncoated Book	114422	64874	8436	4766	14159	8123	140259	51.9
Coated Print.& Impres. Pap	39321	28765	3093	2335	2488	1956	48539	19.2
Bristols	910	656	14	17	44	50	420	-53.2
Writing and Similar Paper	12855	15478	1580	1235	1871	1465	22116	53.6
Thin (except Cigarette)	12015	17647	454	604	1125	1492	10742	2.9
Total Pkg & Other Paper	93586	71127	7074	5254	5853	5609	71842	-33.1
Unbleached Kraft Paper	32532	14872	2927	1281	1172	648	25880	-38.4
Other Pkg. & Indust. Paper	61034	56254	4147	3963	4681	4961	46062	-29.8
Tissue	7040	4830	459	303	666	473	5905	-10.6
Paperboard, Total	130633	34754	6719	1779	7738	1902	88388	-44.1
Test or Containerboard	48169	12072	1640	388	2704	620	24959	-66.3
Semi-Chemical Corrugating	52468	11695	3100	669	3588	768	35607	-36.5
Other Paperboard	29997	10987	1980	722	1447	514	27822	-1.0
Convtd Paper&Paperbd Products	95440	309849	7175	24015	9476	31188	96380	15.2
Paper Products, Total	87414	293726	6502	22542	8248	28605	85436	11.6
Paperboard Products, Total	8027	16123	673	1474	1228	2583	10945	53.8
Wet machine Board	1684	1185	146	91	109	83	1524	-2.0
Construction Paper & Board	396496	78337	25572	5234	32112	6480	262611	-42.7
Notes								
Other: No Weight Avail. ([illegible])		125935		8720		12720	123148	-6.3
Total Imports Incl. Other([illegible])		5585167		416891		498607	5441086	-4.0

EXPORTS

	YEAR 1981 Tons	YEAR 1981 $000	APRIL 1982 Tons	APRIL 1982 $000	MAY 1982 Tons	MAY 1982 $000	(1)	
Pulpwood, Roundwood (cords)	188598	10555	6460	413	17866	1271	100486	-27.8
Pulpwood Chips	3846049	314037	238023	19519	297309	23775	3168084	-19.4
Total All Exports	10663148	4905814	854849	382031	911886	401684	10003320	-12.1
Wood Pulp,Total	3677635	1661311	316037	138105	326498	137904	3565322	-5.9
Cotton Pulp and Other Pulp	131910	65195	9137	6401	10282	7257	108470	-24.8
Waste and Old Paper	2212549	268526	186231	21315	194783	22051	2097168	-12.6
Paper, Board & Products,Total	4841054	2890782	343444	216210	380323	234473	4232359	-16.1
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	4033988	2079937	299128	144786	333510	165019	3713281	-15.4
Paper, Ppbd & Proc ex Cnst&WMB	4561410	2853148	339441	214300	373693	231050	4186321	-15.8
Paper & Paperboard, Only	3954344	2042303	295125	142876	326879	161596	3647242	-15.1
Paper, Total	1008409	846775	65456	53266	81806	66347	930576	-11.0
Newsprint	270480	139702	18615	8521	35182	17075	338118	54.3
Printing & Writing	383317	354608	19774	19971	21045	21711	256738	-40.3
Uncoated Groundwood	119673	91966	3431	3077	4183	4364	58058	-53.9
Clay Coated Paper	88597	78328	7358	8190	7460	5993	80931	-17.3
Uncoated Free Sheet	116752	119591	5934	6342	6058	6689	73760	-44.3
Other Printing & Writing	58205	64723	3052	4362	3334	4665	43088	-39.9
Total Pkg. & Other Paper	302887	304623	25227	22513	23398	25513	312780	-4.4
Unbleached Kraft	110801	50880	8885	3787	6044	2624	88949	-20.9
Other Pkg. & Indust. Paper	192086	253643	16232	18715	17356	22889	223811	10.8
Tissue	51745	47842	1839	2281	2180	2049	24980	-64.4
Paperboard, Total	2945935	1195528	229670	89610	245073	95248	2716886	-16.4
Solid Wood Pulp	2772413	1110744	218040	83857	231435	88771	2575656	-14.5
Total Linerboard	1973487	860285	148085	43745	165805	48975	1777226	-17.8
Bleached Kraft Linerboard	151978	52546	4091	1824	3350	1351	56875	-73.8
Unbleached Kraft Linerbd	1821509	807739	143995	42121	162454	47624	1720351	-11.6
Other Unbleached Kraft	148855	63341	10618	7842	12162	5237	175135	-1.3
Other Bleached Kraft	584250	387530	47360	31143	47919	32873	550845	-8.8
Semi-Chemical Corrugating	65821	19588	3880	1128	5549	1687	72450	7.6
Recycled Paperboard	173522	84784	11629	5654	13638	6478	141010	-40.6
Convtd Paper&Paperbd Products	607088	810845	44316	71424	46814	69454	519078	-20.5
Paper Products, Total	382337	580602	28784	53341	29103	50607	322578	-12.7
Paperboard Products, Total	244729	230243	15532	18084	17711	18847	196503	-30.5
Wet Machine Board	10812	7039	849	359	1712	748	10532	-17.4
Construction Paper & Board E	68832	30585	3354	1551	4919	2674	55507	-32.8
Notes								
Other: No Weight Avail. ($000)		11235		745		1137	10055	10.4
Total Exports Incl. Other($000)		4917049		382776		402822	4538799	-11.7

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES

1967 = 100

	1980	1981	MARCH	APRIL	MAY	JUNE	Annual Rate Y-T-D 1982	% Change from same Period Last Year
Pulp, Paper and Products except Building Grades	250.6	270.8	277.3	276.4	275.4	274.6	276.1	3.4
Pulp Paper & Products, ex. Building Grades & ex Waste Paper #	251.3	272.4	279.8	278.9	278.0	277.3	278.6	3.8
Total Wood Pulp	380.3	397.1	414.1	392.3	398.2	390.3	402.6	2.7
Total Paper	256.8	279.8	289.5	291.7	288.8	288.2	289.5	5.4
Total Paper, exc. Newsprint	249.3	271.1	281.6	280.4	278.4	279.4	280.6	5.6
Newsprint	279.7	307.5	318.1	330.0	324.0	321.0	321.3	6.4
Total Paperboard	234.6	258.1	261.1	261.2	258.8	255.9	259.7	1.7
Total Paper and Paperboard #	249.9	273.1	280.6	282.1	279.4	278.1	280.2	4.3
Converted Products	238.5	258.8	265.5	265.0	264.7	265.0	264.8	3.8
Waste Paper	208.7	175.7	129.2	128.1	121.5	115.2	126.3	-31.9
All Commodities	268.8	293.4	297.9	297.9	298.6	299.4	298.5	2.6
Industrial Commodities	274.8	304.1	311.0	309.9	309.5	310.7	310.6	3.6

SOURCE: Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor # Computed by API

Paper and Paperboard

Production and New Supply

	Production	Imports	Exports	Supply	Real GNP $ Billion	Ratio 000T/ $ Billion	Manufacturing Production 1967=100	Ratio 000T/ Point
	------------ 000 Tons			------------				
1976	55,150	7,042	3,388	58,804	1,298.2	45.30	130.3	451
1977	56,823	7,293	3,171	60,945	1,369.7	44.50	138.4	440
1978	58,744	8,781	3,301	64,224	1,438.6	44.64	146.8	437
1979	61,271	8,738	3,610	66,399	1,479.4	44.88	153.6	432
1980	61,147	8,304	5,148	64,303	1,474.0	43.62	146.7	438
1981 Qtr.								
I	63,284*	8,095	4,743	66,636	1,507.8	44.19	151.3	440
II	62,577*	8,067	5,038	65,606	1,502.2	43.67	152.4	430
III	63,321*	7,263	4,465	66,119	1,510.4	43.78	152.5	434
IV	60,066*	8,344	3,999	64,411	1,490.1	43.23	145.0	444
Year	62,260A	7,942	4,561	65,641	1,502.6	43.68	150.4	436
1982 Qtr.								
I	60,982*	7,789	4,091	64,680	1,470.7	43.98	139.8	463
II	57,757*	7,724**	4,279**	61,202	1,476.8	41.44	138.1	443
First 6 Months	59,370	7,763***	4,166***	62,967	1,473.8	42.72	139.0	453

A - Actual
* - Quarterly production data, seasonally adjusted annual rates
** - April-May rate
*** - Average through May

Source: Production: API
Imports and Exports: Bureau of the Census; data includes products

Continued from Page 2

The packaging and industrial grades, by way of contrast, were down sharply, with the six-month total 9% below the year-ago levels.
Technical Note: The data on printing and writing papers presented in the table on page 3 and in the Industry Fact Sheet have been revised by the Printing-Writing Paper Division as a result of its annual review. In some instances, such as uncoated free sheet papers, the revisions go back to 1978, but for the most part, they involve only 1980 and 1981. Changes are relatively small: in 1981, for example, total printing/writing paper production is now reported at 15,736,000 tons; the previous figure was 15,681,000 tons. The 1980 revision is also of a similar small magnitude. The tissue paper data for 1980 and 1981 have also been revised in line with the latest information available from the Tissue Division; again, the changes are quite small. Tables showing monthly data from 1978 through June 1982 are available from the Economics Department on request.

Paperboard: For the entire first half, paperboard production was down by 7.8%, compared to the 3.5% decline in total paper production for the same period. Production of paperboard and of paper packaging products tend to move in line with industrial production in that most of their markets are in the industrial sector of the economy. Printing and writing paper production, on the other hand, tends to be more closely related to total economic activity as measured by the Gross National Product; these papers find major markets in the service sector of the economy, which tends to be more resistant to business cycles.

Declines in paperboard production were fairly well distributed throughout the structure. Relative to year-ago levels, the best performance was turned in by solid bleached paperboard, which showed a 6.5% decline in production from the first half of 1981 to the first half of 1982. The largest decline was in semichemical paperboard, which fell by 9%. In terms of markets, the production of containerboard for domestic use declined 8.3%; production of boxboard for domestic use was down 8.5%. These declines compare to the 8.5% cut recorded in manufacturing production from the first half of 1981 to the first half of 1982. Over that same period, real GNP declined by 2.1%.

Production of paperboard for export held up fairly well, with the total down by 4.2% in the first half of the year; production of kraft linerboard for export showed a 4.3% decline. The monthly levels of linerboard exports in the February-June period fluctuated in the 152-181,000 tons per month range.

Sales and Earnings

The current recession has had a major impact on paper industry sales and earnings. Net sales of 25 paper companies, based on press reports, totalled $8.59 billion in the second quarter of 1982, 8.4% below sales in the second quarter of 1981. Second quarter 1982 profits of these companies, at $284 million, were down 45.5% from their year-ago level. The margin on sales dropped from 5.6% in the 1981 quarter to 3.3% in 1982.

Continued on Page 12

Continued from Page 11

For the entire first half of 1982 sales of these companies amounted to $16.9 billion, 7.3% below the year-earlier total. After-tax profits were $543 million, down 45%, so that the margin on sales, at 3.2%, held close to the 3.3% noted for the second quarter of the year. In the corresponding period of 1981 these companies had a 5.4% margin on $18.2 billion in sales.

Based on paper industry companies as defined in the Federal Trade Commission reports, these companies accounted for over half of the net sales of all paper companies.

The decline in net sales as reflected in these data probably overstates the drop in U.S. industry sales by a small amount. If the 1981 sales volume of one major company is restated to conform to its 1982 configuration, the quarter-to-quarter decline in sales would be 5.9% and the decline for the first half of 1982 from the first half of 1981, 4.6%. If the earnings were similarly restated the decline would also be a little smaller.

While the comparisons with year-ago data show fairly sizeable declines, the trends from the first to second quarters of 1982 are a little more encouraging. In spite of the decline in the rate of production, net sales of these companies rose by 3.1% from the first to second quarters of the year; after-tax profits by 9.8%.

Capital Appropriations

The Conference Board reported that newly approved capital appropriations in the first quarter of 1982 by those paper companies included in the 1,000 largest companies in the U.S. amounted to $2.2 billion, 67% above the $1.3 billion appropriations reported in the fourth quarter of 1981.

Appropriations in both the fourth quarter of 1981 and the first quarter of 1982 were significantly above the rate of capital expenditures by these same companies, so that the backlog of unspent appropriations rose from $4.3 billion as of the end of the third quarter of 1981 to $6.1 billion as of the end of the first quarter of 1982. While not fully comparable with earlier data, the Board did point out that appropriations by these companies amounted to $2.1 billion in 1978, rose to $3.9 billion by 1980, and then eased to $3.7 billion in 1981. In these terms, the appropriations for the first quarter of 1982 represent a sizeable total.

The industry's planned expenditures for plant and equipment in 1982, as reported by the Department of Commerce, are expected to be 12.1% below the 1981 total in current dollar terms, and about 16% behind when adjusted for increases in prices of plant and equipment.

INDUSTRY FACT SHEET

MERICAN PAPER INSTITUTE, INC.
60 Madison Avenue
ew York, New York 10016

JULY 30, 1982

	PRODUCTION (000 TONS)					
	June 1982	May 1982	June 1981	Jan - June 1982	Jan - June 1981	% Change 82/81
APER GRADES	P	R				
Newsprint	423	424	445	2620	2569	2.0
Printing & Writing	1258	1270	1324	7759	8030	-3.4
Uncoated Groundwood (s)	114	115	121	699	745	-6.2
Coated Paper (s)	415	407	410	2461	2472	-0.5
Uncoated Free Sheet Paper (s)	609	639	666	3902	4074	-4.2
Thin Paper (s)	31	29	31	175	176	-0.4
Cotton Fiber Paper (s)	10	11	10	64	63	0.6
Bleached Bristols (s)	79	69	85	459	499	-8.0
Tissue Paper	355	359	378	2198	2267	-3.1
Total Pkg & Other Paper	411	395	458	2635	2891	-8.9
Unbleached Kraft Packaging & Indl. Converting (s)	292	270	316	1828	2017	-9.3
Other Paper *	119	125	142	807	874	-7.8
TOTAL PAPER	2447	2449	2604	15211	15756	-3.5
APERBOARD GRADES						
Unbleached Kraft Paperboard	1204	1296	1326	7505	8142	-7.8
Unbleached Kraft Linerboard	1127	1197	1226	6963	7560	-7.9
Other Unbl. Kraft Paperboard	77	99	101	541	582	-6.9
Semichemical Paperboard	376	379	388	2245	2467	-9.0
Bleached Paperboard	310	329	331	1900	2033	-6.5
Recycled Paperboard	540	565	608	3386	3672	-7.8
TOTAL PAPERBOARD	2430	2569	2654	15036	16315	-7.8
TOTAL PAPER AND PAPERBOARD	4876	5018	5258	30248	32071	-5.7

OOD PULP (ALL GRADES)	May 1982	April 1982	May 1981	Jan - May 1982	Jan - May 1981	% Change 82/81
Dissolving & Special Alpha	108	97	125	532	575	-7.4
Bleached Sulphite	107	109	132	552	622	-11.3
Unbleached Sulphite	34	25	33	147	168	-12.4
Bleached & Semi-Bl. Sulph.	1707	1704	1768	8464	8523	-0.7
Unbleached Sulphate	1551	1537	1748	7851	8472	-7.3
Semichemical	325	316	349	1617	1721	-6.1
Groundwood and Thermo-Mechanical	433	420	449	2173	2220	-2.1
TOTAL PULP DIVISION DATA	4266	4209	4604	21335	22299	-4.3

s) - Shipments
P - Preliminary
R - Revised
* - Revised series based on A.P.I. data.
E - Estimate

July 30, 1982

	Full Year		INDUSTRY DATA			Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1980	1981	April	May	June		
Total Production (API).......| excluding |...	61147	62260	5012	5018	4876	60455	-5.7
Total Seasonally Adjusted....|construction|...			4904	4799	4737	59370	-5.7
Imports (including Products).| and wet |..E	8302	7942	574	713	N.A.	7758	-4.0
Exports (including Products).| machine |..E	5148	4561	339	374	N.A.	4184	-14.4
Apparent Consumption.........| grades |...	64301	65641	5139	5138	5025	62944	-4.8
Paper Production % Tonnage Capacity...........	92.5	82.2	86.0	80.8	83.2	86.6	-
Paperboard Production % Tonnage Capacity......	91.8	91.2	83.4	83.7	81.4	84.6	-
			March	April	May		
IMPORTS.....|Including Construction and |.....	8776	8341	726	600	746	8027	-6.7
EXPORTS.....| WMB Grades (excl. HPB) |.....	5214	4641	408	343	380	4232	-16.1
MARKET WOOD PULP PRODUCTION - Tons (000)........	6488	6190	536	494	480	5934	-4.7
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)....	50737	51985	4587	4209	4266	51205	-4.3
WOOD PULP IMPORTS - TONS (000)...................	4051	4087	298	306	302	3563	-18.1
WOOD PULP EXPORTS - TONS (000)...................	3806	3678	319	316	326	3565	-5.9
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS | excluding |			March	April	May		
Wood Pulp.............|consumption for|.....	48476	50827	4395	4298	4088	48755	-5.2
Waste Paper...........|construction & |.....	13551	14022	1235	1157	1195	13935	-3.6
TOTAL.........| WMB grades |.....	63027	64849	5630	5455	5283	63690	-4.8
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	79574	79747	7018	6791	6300	79234	-2.0
EMPLOYMENT (000)			April	May	June		
Paper and Allied Products..........Total......	692.8	687.8	662.2	659.9	664.5	664.5	-3.4
Pulp, Paper and Board Mills........Total.....E	268.4	266.6	258.2	254.8	256.4	257.0	-3.6
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products......................	7.84	8.60	9.11	9.14	9.23	9.08	8.8
Pulp, Paper Mills............................E	9.15	10.06	10.61	10.62	10.68	10.57	8.7
Paperboard Mills.............................E	9.26	10.23	10.82	10.96	10.98	10.82	8.6
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1982 Q1	1982 Q2	1982 Q3		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	6.80	6.72	6.05	5.78	6.16	5.91y	-12.1
INDEX OF OUTPUT PER MAN-HOUR (1977=100)..........			April	May	June		
|IN PULP, PAPER |...Production Workers..........	108.1	109.0	108.5	107.1	106.4	109.8	-0.6
|AND BOARD MILLS|...All Employees...............	106.6	107.9	106.8	105.1	103.7	107.6	-1.3
PAPER AND ALLIED PRODUCTS (Million $)			March	April	May		
Industry Shipments (Dept. of Commerce)*........	71736	77784	6490	6343	6130	76758	-1.1
Pulp, Paper and Paperboard*..................	31952	34181	2877	2694	2618	33134	-2.5
Inventories (End of Period) - Total Industry*.	7798	8817	9041	8931	8930	8930	8.6
Pulp, Paper and Paperboard*..................	2794	3301	3380	3398	3443	3443	15.4
			1981 Q3	1981 Q4	1982 Q1		
Sales (Corporations Only, FTC).................	56250	62699RS	16073	15402	15125	60500	-0.3
Earnings (Corporations Only, FTC)..............	2800	3110RS	633	829	418	1672	-45.6
Depreciation (Corporations Only, FTC)..........	2026	2267RS	588	558	580	2320	5.1
Net Worth (Corporations Only, FTC).............	24396	26558RS	26114	26558	26825	26825	6.3
PRICE INDEXES (Bureau of Labor Stats)1967=100			April	May	June		
Pulp, Paper & Products, ex. Building Grades...	250.6	270.8	276.4	275.4	274.6	276.1	3.4
Wood Pulp.....................................	380.3	397.1	392.3	399.2	380.3	402.6	2.7
Waste Paper...................................	208.7	175.7	128.1	121.5	115.2	126.3	-31.9
Paper...	256.8	279.8	291.7	288.8	288.2	289.5	5.4
Paperboard....................................	234.6	258.1	261.2	258.8	255.9	259.7	1.7
PAPER DEMAND (INDEXED: 1967=100)			April	May	June		
Total Paper Production *.....................	143.9	148.3	144.0	135.8	136.9	143.1	-3.4
Paper New Supply *...........................	138.1	137.9	131.5	130.6	129.0	133.6	-3.3
Total End - Use Index *......................	148.5	150.6	149.6	148.9	148.1	149.6	-0.2
Production of Nondurable Goods *...(19%)..	161.2	164.7	158.2	155.3	154.6	156.1	-5.9
Disposable Income (Constant $) *...(23%)..	152.0	155.6	157.8	157.6	157.0	156.9	1.4
Total Printing and Publishing *...(58%)..	139.5	144.0	144.2	143.4	142.5	144.7	1.2
Trend Factor	--------	--------	-------Not Available-------	--------	--------	--------	--------
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *................	135.4	137.1	125.7	127.7	123.4	128.8	-7.8
Production for Domestic Use	128.3	132.9	121.3	121.5	117.7	124.0	-8.2
Total End - Use Index *......................	146.1	149.3	140.3	140.3	140.0	140.4	-6.8
Production of Consumer Goods *...(60.49%)	145.4	147.8	142.2	143.3	143.4	142.0	-4.6
Production of Equipment *...(6.62%)	145.2	151.8	143.3	140.9	138.5	143.9	-4.6
Production of Materials *...(32.89%)	147.6	151.5	136.1	134.8	133.9	136.8	-11.0
Trend Factor	--------	--------	-------Not Available-------	--------	--------	--------	--------
NEWSPRINT MARKETS			March	April	May		
Consumption by Publishers - Tons (000)........	11121	11205	957	951	966	11037	0.1
Newspaper Pub. and Printing Empl. Total(000)..	419.9	421.9	425.2	423.9	423.7	424.6	1.8
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)..........	118372	122418	10766	10467	11847	120243	0.7
WHOLESALERS SALES AND INVENTORIES (Million $)(J)							
Total Paper & Pap. Prdcts..ex Wallpaper..Sales	21296	24381	2186	2018	2018	24197	2.5
Inventories (End of Period)	1849	2095	2078	2054	2054	2054	4.0
Paper Only............................Sales	15643	17631	1616	1510	1510	17707	3.8
Inventories (End of Period)	1227	1383	1437	1430	1430	1430	13.2
RETAIL TRADE (Million $)			April	May	June		
Total Retail Sales *..........................	953984	1044587	88294	90682	89301	1057056	1.9
Nondurable Goods Stores Sales *...............	656231	716262	60310	61415	61264	728312	2.8
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	147.0	150.9	140.2	139.4	138.4	140.6	-7.6
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	268.8	293.4	297.8	298.6	299.4	298.5	2.6
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	246.8	272.4	284.3	287.1	290.6	285.2	7.2
			March	April	May		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	313.5	333.4	327.1	328.4	329.3	329.3	4.3
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$).			1981 Q4	1982 Q1	1982 Q2		
G.N.P. or Expenditure - Current $.............	2633.1	2937.7	3003.2	2995.5	3047.4	3021.5	4.8
G.N.P. or Expenditure - 1972 $................	1474.0	1502.6	1490.1	1470.7	1476.9	1473.8	-2.1

lb/capita

	Pap&Papbd		Othr		Totl	Popul(mil)
.a -	565	+	26	=	591	227.7
.b -	571	+	21	=	592	229.8
.c -	544	+	15	=	559	231.5

.E - Last month estimated by API
.e - estimated by API

a - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
J - Census unpublished data; standard dev. = 6-8%
N.A. - Not Available
P - Preliminary
Q - Quarter

R - Revised
RS - Revised Series
y - Full year estim. by U.S. Dept. of Com.
* - Seasonally Adjusted

A2500-2 9/10/82

Paper
Paperboard
& Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 60 - No. 8 August, 1982

Paper and Paperboard Production: Trend Bottoming Out?

Preliminary data indicate that the production of paper and paperboard in July 1982 totalled 4.5 million tons, 8.7% below the July 1981 total, bringing the seven-month 1982 total 5.8% below the comparable 1981 level. Data for the first two weeks of the month indicate that the August 1982 production total will move above the 5 million ton level, but will be about 7% below the August 1981 total. Despite the year-to-year declines, the trend of production in the May-August 1982 period has been fairly flat. On the basis of the two-month moving average of the seasonally adjusted data (the two-month average is used to eliminate the effects of random fluctuations) the rate of production in each of those months was close to 57.6 million tons per year.

The flat trend was evident in both paper and paperboard production. The trend rate of paper production ranged in the 29.0-29.5 million tons per year range during that period, while the rate of paperboard production stayed in the 27.9-28.9 million tons per year range.

The table below shows the two-month average of seasonally adjusted figures, centered in the second month; e.g., the figure shown for January 1982 is the December 1981-January 1982 average.

1982 Paper and Paperboard Production Trend
(000 tons per month)

	Paper	Paper-board	Total
January	2,518	2,396	4,914
February	2,575	2,508	5,083
March	2,580	2,547	5,127
April	2,537	2,453	4,990
May	2,443	2,410	4,853
June	2,413	2,384	4,797
July	2,462	2,325	4,787
August(E)	2,450	2,362	4,812

E - August component based on two weeks data.

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Continued from Page 1

Production by Grade - Paper

Although the rate of total paper production held fairly steady in recent months, the individual grades followed somewhat different trends. The rate of newsprint production, for example, weakened a bit in July, although the seven-month total just about matched its year-ago level. The disappearance of the threat of work stoppages in the Canadian newsprint mills is permitting newspaper publishers to reduce their rather heavy inventories. Their inventories at the end of June 1982 amounted to 61 days of supply, compared to a more unusual 47 days of supply in June 1980 and 54 days of supply in June 1981.

The rate of printing/writing paper production moved downward in July, largely as a result of weakness in the uncoated free sheet grades; the seasonally adjusted rates of uncoated groundwood papers and of coated papers held up rather well. Tissue paper production has followed a flat trend since April 1982, while some strength has been evident in production of the packaging and industrial grades.

Production by Grade - Paperboard

Paper production tends to move in line with total economic activity since it has the support of the relatively stable service industries as a market for its products; paperboard production, however, largely used in packaging, tends to move more with manufacturing production. Total business activity in the first half of 1982, as measured by the real gross national product, was 2.1% below its year-earlier level; paper production showed a 3.4% decline in the first seven months of 1982. Paperboard production was down by 8.4% in the first seven months of 1982, compared with an 8.8% decline in manufacturing production.

The close relationship between paperboard production and its markets is clearly shown by the containerboard data. Production of containerboard for domestic use in the first seven months of 1982 was 9.3% below its year-ago level. In that same period, shipments of fibre boxes, as reported by the Fibre Box Association, were down 6.8%. Part of the reason for the somewhat steeper decline in containerboard production was the inventory pattern: inventories of containerboard at box plants and mills (about 86% at box plants, 14% at mills) rose by 387,000 tons in the first seven months of 1981, but declined by 122,000 tons in the first seven months of 1982.

Exports account for an important part of total containerboard demand. Production of unbleached kraft linerboard for export was

Continued on Page 11

PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS

(Thousands of Tons)

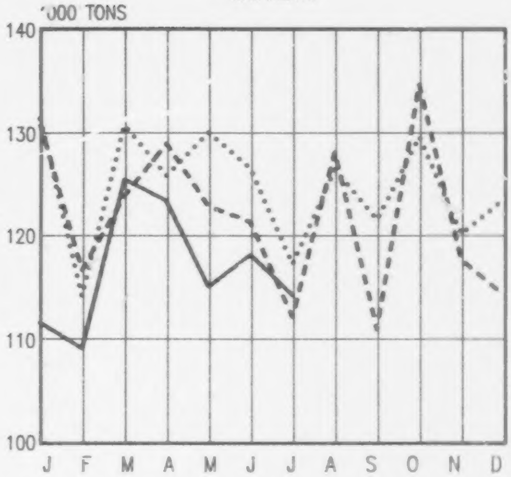
	YEAR 1980	YEAR 1981	APRIL 1982	MAY 1982	JUNE 1982	JULY 1982	Annual Rate Y-T-D 1982	% Change from same Period Last Year
PAPER					R	P		
Newsprint - Production	4672	5239	437	424	423	400	5177	0.1
- Shipments	4667	5220	413	414	420	386	5058	-1.3
Printing & Writing	15577	15736	1309	1271	1302	1163	15372	-3.1
Groundwood Paper - Shipments	1498	1463	123	115	118	114	1401	-4.6
- New Orders	1475	1449	140	116	113	130	1441	-2.3
- Unfilled Orders	110	100	104	102	99	114	114	-1.4
Coated Paper - Shipments	4673	4940	409	408	432	392	4920	0.4
- New Orders	4753	4853	408	381	433	388	4843	0.3
- Unfilled Orders	391	360	336	307	305	310	310	-20.3
Unctd Free Sheet - Shipments	8016	7898	661	640	640	563	7708	-4.2
- New Orders	7726	7735	641	619	645	567	7601	-4.2
- Unfilled Orders	548	370	317	297	294	305	305	-31.9
Thin Paper - Shipments	333	336	28	29	30	24	339	-1.5
Cotton Fiber Paper - Shipments	126	125	10	11	10	8	125	1.0
Bleached Bristols - Production	932	974	76	69	72	62	879	-10.3
Tissue Paper - Production	4375	4503	356	362	362	330	4347	-3.0
Total Packaging & Other Paper *	5571	5550	426	395	424	410	5242	-7.6
Unbl. Kraft Paper - Shipments	3962	3873	288	270	290	285	3818	-8.8
Other Paper - Production *	1609	1678	138	125	135	125	1624	-5.0
TOTAL PAPER-Production-Unadj.	30195	31028	2527	2453	2511	2303	30138	-3.4
-Production-S.A.			2512	2374	2452	2471	30040	-3.4
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	23881	24231	1913	2005	1875	1727	22906	-8.6
Unbl. Kraft Linerboard (1)	14232	14540	1145	1197	1106	1004	13623	-9.0
Production for Export	2380	1887	152	181	163	146	1917	-4.3
Other Unbl. Kraft Paperboard	1063	1062	82	99	81	84	1078	-7.0
Semichemical Paperboard	4723	4719	369	379	376	344	4441	-9.3
Production for Export	322	155	15	18	18	17	186	5.0
Solid Bleached Paperboard	3862	3810	317	329	310	294	3763	-6.9
Production for Export	545	557	45	48	48	42	544	-2.4
Recycled Paperboard	7071	7001	571	565	547	481	6642	-7.7
Production for Export	83	24	2	1	1	1	16	-44.2
TOTAL PAPERBOARD-Prod.-Unadj.	30952	31232	2484	2569	2421	2208	29548	-8.4
- Containerboard Prod.(Dom. Use)	18070	19040	1496	1539	1444	1324	17711	-9.3
- Boxboard Prod.(Dom. Use) (2)	5477	5544	444	448	428	389	5259	-9.5
- All Other P'bd Prod.(D.U.) (2)	4075	4026	330	335	319	288	3815	-7.2
- Total Paperbd Prod. for Export	3329	2622	214	247	230	207	2663	-3.7
TOTAL PAPERBOARD PROD. - S.A.			2391	2428	2340	2310	29141	-8.4
TOTAL PAPER AND PAPERBOARD								
Production - actual	61147	62260	5011	5022	4932	4511	59686	-5.9
Production - S.A.			4903	4803	4792	4781	59181	-5.9

(1)Includes all exports of kraft paperboard.
(2)Data for unbl. kraft folding boxboard incl. in All Other P'bd.
* Revised series based on A.P.I. data, beginning January, 1981.

P Preliminary
R Revised
S.A. Seasonally Adjusted

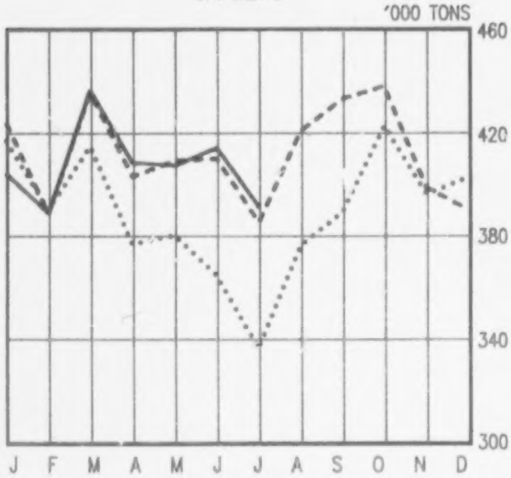
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



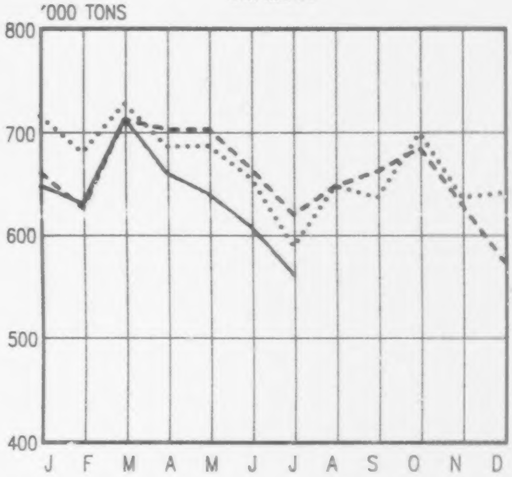
COATED PAPER

SHIPMENTS



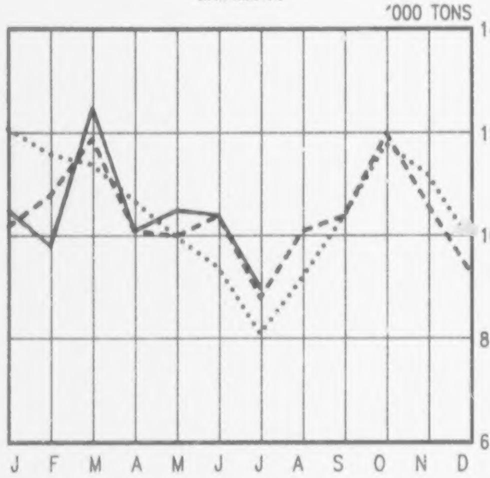
UNCOATED FREE SHEET PAPERS

SHIPMENTS



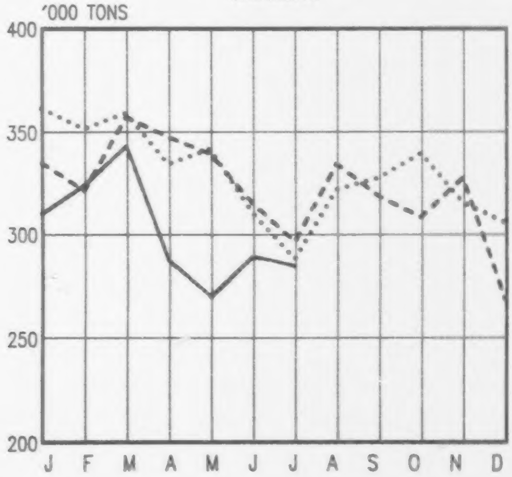
COTTON FIBER PAPER

SHIPMENTS



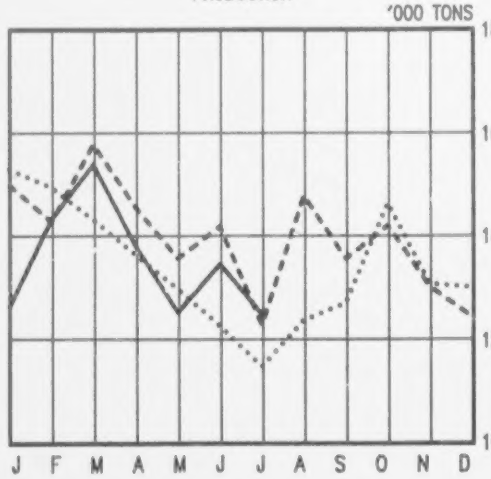
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1980 ······· 1981 ----- 1982 ——

WOOD PULP STATISTICS
(Thousands of Tons)

		YEAR 1980	YEAR 1981	MARCH 1982	APRIL 1982	MAY 1982	JUNE 1982	Annual Rate Y-T-D 1982	% Change From same Period Last Year
TOTAL WOOD PULP						R	P		
Total Wood Pulp	Production	50737	51985	4597	4209	4266	4181	51033	-4.5
	Imports	4051	4087	296	306	302	287	3543	-18.1
	Exports	3806	3678	318	316	326	302	3575	-7.7
	New Supply	50982	52394	4574	4199	4242	4166	51001	-5.3
Dissolving Pulp	- Production	1508	1365	122	97	108	72	1208	-13.0
	- Imports	263	249	11	23	10	15	201	-15.1
	- Exports	769	784	62	52	69	55	660	-15.6
	- New Supply	1002	830	71	68	49	32	749	-11.2
Paper Grades Chemical Pulp	- Production	40436	41376	3660	3375	3400	3355	40737	-4.3
	- Imports	3615	3655	267	276	279	259	3193	-17.6
	- Exports	2956	2870	256	263	256	245	2895	-5.6
	- New Supply	41095	42161	3671	3388	3423	3369	41034	-5.4
Groundwood and Thermo-Mech.	- Production	4767	5320	464	420	433	429	5204	-2.6
	- Imports	173	183	19	7	12	12	150	-30.1
	- Exports	81	24	1	1	1	2	20	-28.2
	- New Supply	4859	5478	482	427	445	439	5334	-3.5
Semi-Chemical	- Production	4026	3924	350	316	325	325	3884	-5.6
	- Imports	0	0						
	- Exports	0	0	------ Included	with	Groundwood	Pulp	------	
	- New Supply	4026	3924	350	316	325	325	3884	-5.6
MARKET WOOD PULP									
Total Market Wood Pulp	- Production	6488	6190	536	494	516	491	5999	-4.2
	- Imports	2947	2924	201	229	173	174	2455	-19.1
	- Exports	3513	3352	304	272	282	262	3176	-7.2
	- New Supply	5921	5761	432	451	407	403	5278	-10.2
Dissolving Pulp	- Production	1506	1337	122	97	103	72	1197	-10.3
	- Imports	235	241	9	23	10	14	182	-31.0
	- Exports	876	787	76	57	57	61	700	-7.7
	- New Supply	865	791	56	63	56	25	679	-19.1
Paper Grades Chemical Pulp	- Production	4913	4852	414	397	413	419	4802	-2.6
	- Imports	2687	2634	188	189	161	157	2231	-17.5
	- Exports	2588	2555	229	215	224	201	2477	-6.5
	- New Supply	5012	4931	373	381	350	375	4556	-8.6
Groundwood Pulp and All Other	- Production	69	1	0	0	0	0	0	-75.0
	- Imports	26	49	4	7	2	3	42	-34.5
	- Exports	50	10	0	0	0	0	0	0.0
	- New Supply	44	40	4	7	2	4	43	-11.2

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp & Raw Materials Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

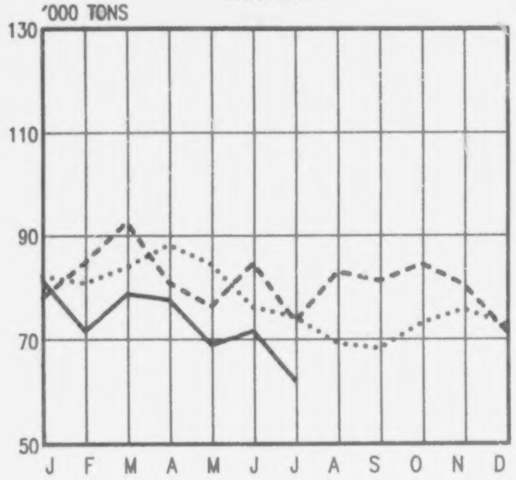
FIBROUS RAW MATERIALS
(Thousands of tons)

	1980	1981	March 1982	April 1982	May 1982	June 1982	Annual Rate Y-T-D 1982	% Change
CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	63027	64849	5630	5455	5279	5156	63381	-5.1
Total Wood Pulp	49476	50827	4395	4296	4088	4020	49504	-5.4
Waste Paper	13551	14022	1235	1157	1191	1136	13877	-3.8
INVENTORIES								
Own Use Wood Pulp at Pulp Mills	117	188	202	205	208	206	206	9.0
Market Pulp at Pulp Mills	239	389	403	418	433	471	471	61.7
Waste Paper at Paper &Bd. Mills	1008	1216	1115	1048	1009	1047	1047	1.8
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	18	33	32	32	33	38	38	81.0

SOURCES: Wood Pulp Data, Pulp & Raw Materials Group, API. Waste Paper Data, Paper Recycling Committee, API
P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

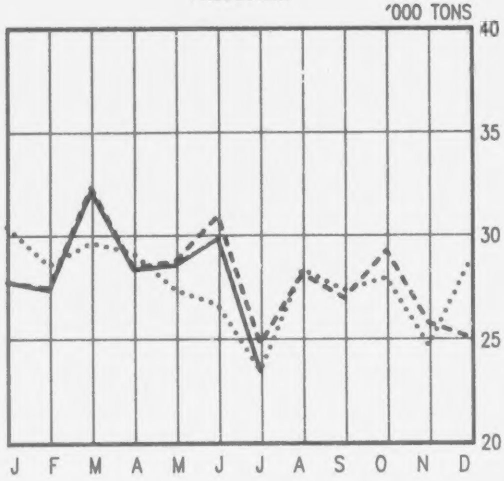
BLEACHED BRISTOLS

PRODUCTION



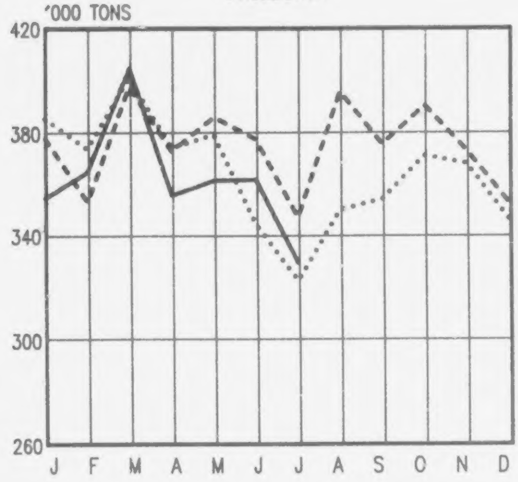
THIN PAPER

PRODUCTION



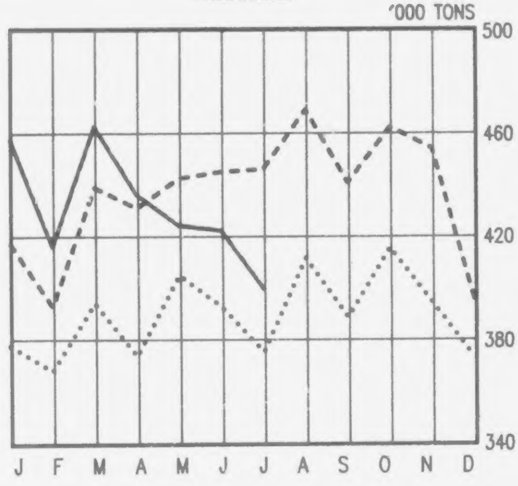
TISSUE PAPER

PRODUCTION



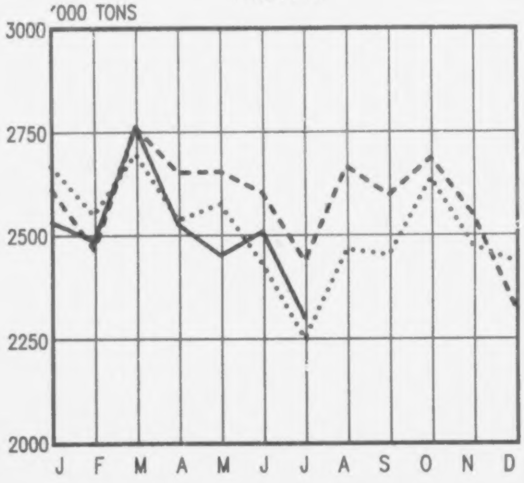
NEWSPRINT

PRODUCTION



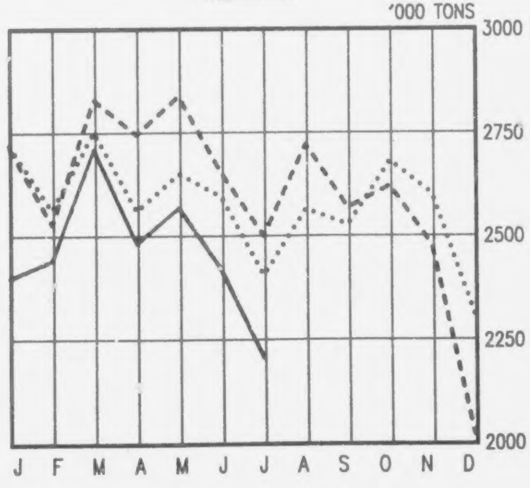
TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1980 ········ 1981 - - - - 1982 ———

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic Foot) Cords)

		YEAR 1980	YEAR 1981	MARCH 1982	APRIL 1982	MAY 1982	JUNE 1982	Annual Rate Y-T-D 1982	% Change From same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	81805	79547	6999	6500	8241	6863	77476	-2.4
	- Total Consumpt.	79574	79747	7018	6791	6300	6737	79502	-1.8
	- Residues *	29402	30590	2573	2671	2504	2758	29880	-4.1
	- Inventories	6285	6045	5274	5074	4748	5738	5738	15.1
So. Atlantic	- Total Receipts	26742	24681	2168	1972	1899	2042	23590	-6.3
	- Total Consumpt	25743	24915	2061	1949	1918	2045	23906	-6.7
	- Residues *	8776	8770	763	683	622	694	8030	-10.4
	- Inventories	1158	1051	863	889	865	911	911	-1.6
Northeast	- Total Receipts	7710	7303	638	536	539	639	7312	-2.2
	- Total Consumpt	7487	7712	626	670	618	567	7454	-3.5
	- Residues *	1649	1362	106	125	119	130	1384	-8.1
	- Inventories	724	635	702	568	482	523	523	-8.6
South Central	- Total Receipts	27509	27744	2510	2281	2178	2237	26478	-3.8
	- Total Consumpt	27074	27687	2555	2347	2228	2298	27650	-0.9
	- Residues *	8001	8923	744	778	680	715	8322	-10.5
	- Inventories	1830	1825	1432	1393	1309	1281	1281	-1.7
North Central	- Total Receipts	5514	5650	444	317	405	478	5292	-4.4
	- Total Consumpt	5292	5708	506	464	470	455	5612	-3.3
	- Residues *	1361	1439	107	98	125	114	1282	-9.8
	- Inventories	1210	1106	1100	954	869	819	819	-24.4
West	- Total Receipts	14330	13669	1239	1394	1220	1467	14804	8.1
	- Total Consumpt	13978	13825	1270	1361	1066	1372	14880	7.4
	- Residues *	9615	10096	853	987	958	1105	10862	8.9
	- Inventories	1363	1428	1177	1270	1223	2204	2204	100.4

* - Consumption of Residues in Cord Equivalents.   SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

	YEAR 1981 Tons	YEAR 1981 $000	MAY 1982 Tons	MAY 1982 $000	JUNE 1982 Tons	JUNE 1982 $000	Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	168317	9876	9878	991	3721	186	103574	-35.8
Pulpwood Chips	1684950	51394	120446	4090	176758	6332	1823480	0.6
Wood Pulp, Total	3800713	1648868	295265	128148	278853	118878	3267652	-20.3
Waste Fibrous Materials, Total	120498	21239	7094	1294	12867	2212	1[illegible]7860	-4.5
Paper, Board & Products,Total	8037877	3282788	716049	313032	680805	332931	7822785	-5.2
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd.	8001585	3219080	712718	307104	676806	298549	7781581	-5.4
Paper Paperboard & Products	7675713	3210134	686409	307106	637677	323568	7544294	-3.7
Paper & Paperboard, Only	7639420	3146427	683078	301179	633678	289186	7503090	-3.9
Paper, Total	7509823	3112917	675419	299373	624253	286724	7411442	-3.1
Newsprint	6935975	2807549	617822	266974	570041	247716	6792094	-4.3
Printing,Writing & Rel.Pap.	482408	242844	52032	27803	47485	31487	548750	20.3
Pack. & Ind. Conv. Paper	82414	54433	4713	3835	5818	6177	63214	-31.2
Special Industrial Paper	2279	3639	229	334	153	522	1526	-40.2
Tissue Paper	6748	4452	624	427	756	822	5858	-9.3
Paperboard, Total	129597	33510	7659	1806	9425	2462	91648	-39.8
Convtd Paper&Paperbd Products	36292	63708	3331	5928	3999	34382	41204	48.5
Wet Machine Board	1064	57[illegible]	84	44	156	133	1064	5.1
Construction Paper & Board	361101	72080	29556	5882	42972	9231	277426	-34.1

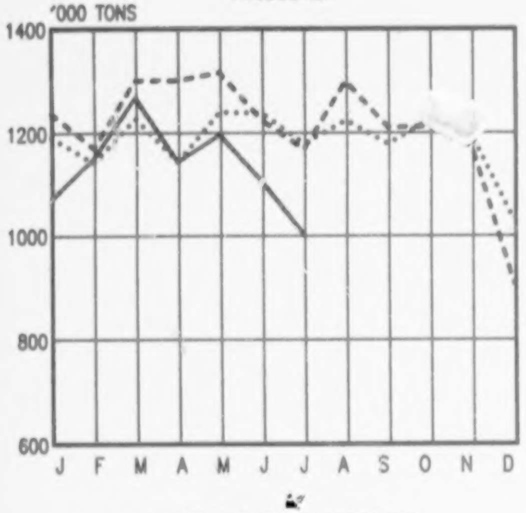
EXPORTS TO CANADA

	YEAR 1981 Tons	YEAR 1981 $000	MAY 1982 Tons	MAY 1982 $000	JUNE 1982 Tons	JUNE 1982 $000	Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	185312	10444	17245	1243	15790	1090	112666	-20.5
Pulpwood Chips	38471	1525	3714	162	4242	235	31784	-26.4
Wood Pulp, Total	118921	56740	13994	6081	9029	4601	123854	-0.0
Cotton Pulp & Other Pulp	5900	3660	434	285	332	236	6064	-18.5
Waste Paper	356523	41185	25382	2951	17567	2337	251896	-31.7
Paper, Board & Products,Total	695992	504904	45720	35254	37356	31173	508854	-35.1
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board	527486	365270	33326	24405	25619	19943	368826	-38.1
Paper, Paperboard & Products	656327	489675	43318	34329	35700	30476	487411	-33.7
Paper & Paperboard, Only	487822	350041	30924	23479	23962	19246	347382	-37.7
Paper, Total	278136	247806	16202	16256	13585	13931	190695	-40.0
Newsprint	8435	6155	131	89	235	277	2425	-67.4
Printing,Writing & Rel.Pap.	162623	134132	9681	8349	8621	7237	113454	-40.8
Pack. & Ind. Conv. Paper	24365	17449	1796	1228	1591	1184	17574	-33.5
Special Industrial Paper	75854	84471	3920	6353	2880	5025	53108	-37.3
Tissue	6858	5600	673	238	279	208	4134	-50.9
Paperboard, Total	209686	102235	14722	7223	10378	5315	156688	-34.6
Convtd Paper&Paperbd Products	168505	139634	12394	10850	11737	11230	140028	-21.4
Wet Machine Board	7201	4215	769	379	601	333	5052	-36.7
Construction Pap & Bd. E	32464	11014	1633	546	1056	364	16391	-59.8

SOURCE: Bureau of Census, Department of Commerce.   E - Estimate of tonnage based on square foot data

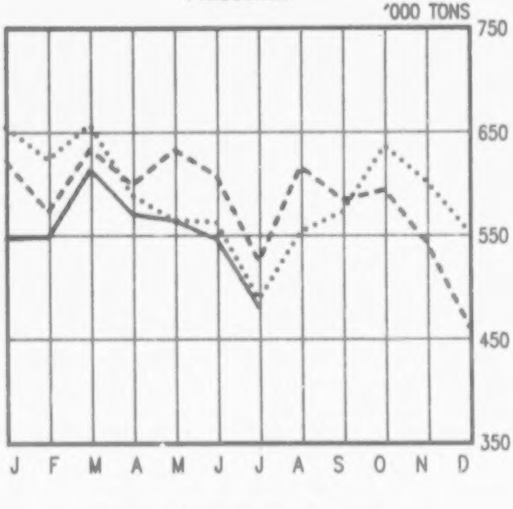
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



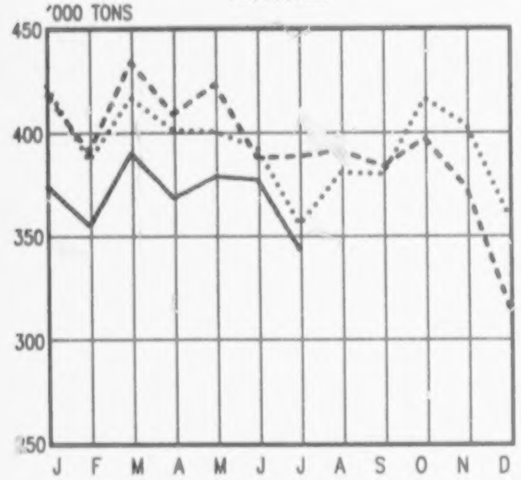
RECYCLED PAPERBOARD

PRODUCTION



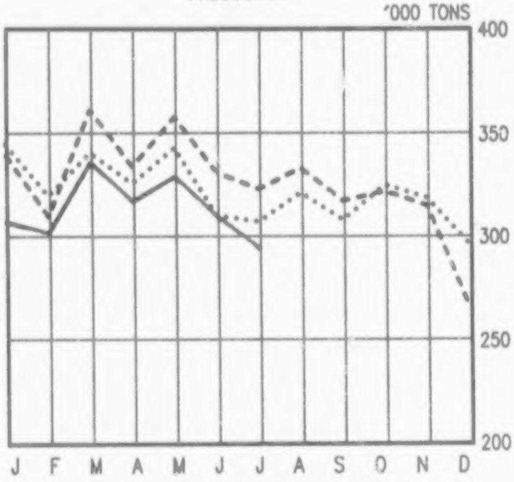
SEMICHEMICAL PAPERBOARD

PRODUCTION



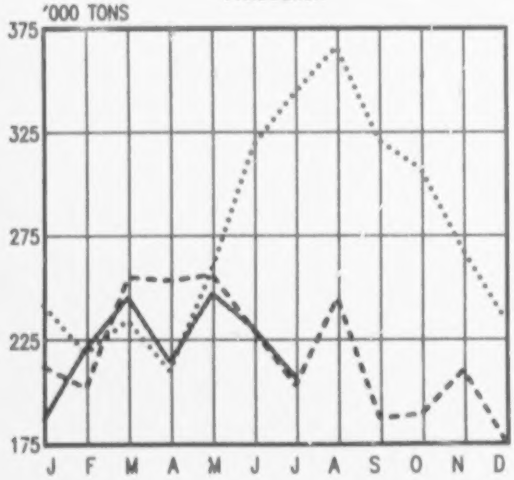
SOLID BLEACHED PAPERBOARD

PRODUCTION



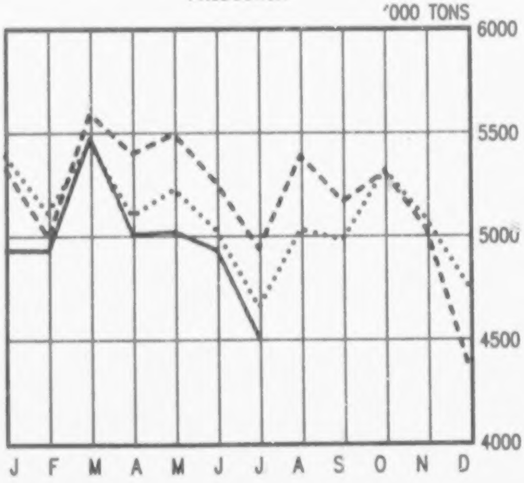
PAPERBOARD FOR EXPORT

PRODUCTION



TOTAL PAPER AND PAPERBOARD

PRODUCTION



1980······· 1981----- 1982 ——

PULP, PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 1981		MAY 1982		JUNE 1982		(1) Annual Rate Y-T-D 1982	% Change From same Period Last Year
	Tons	$000	Tons	$000	Tons	$000		
Pulpwood, Roundwood (cords)	168331	9876	9878	891	3712	186	103556	-35.9
Pulpwood Chips	1684969	51400	120446	4090	180358	6488	1830682	1.0
Total All Imports	12559268	5469721	1056393	485887	1006226	457272	11778261	-9.4
Wood Pulp, Total	4086698	1764289	302142	130797	287208	121177	3543240	-18.1
Waste Paper	79064	13405	2230	154.	8319	1103	68556	-19.6
Other Fibrous Materials	54376	19535	6370	2111	5975	2061	67595	33.3
Paper, Board & Products, Total	8339150	3672493	745651	352825	704724	332931	8098868	-5.1
Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board	8244942	3361888	736175	321637	693687	298549	7996477	-5.4
Paper, Pbd & Prds ex Cnst&WMB	7940970	3592969	713430	346262	656522	323568	7782351	-3.7
Paper & Paperboard, Only	7846763	3282364	703954	315074	645485	289186	7679960	-3.9
Paper, Total	7716285	3247847	696215	313172	635951	286724	7587236	-3.2
Newsprint	6977118	2824777	619881	267747	570332	247716	6820892	-4.3
Printing & Writing	638538	347116	69715	39343	57643	31487	685520	13.6
Uncoated Groundwood	458915	219697	49929	26258	40373	20223	465915	7.1
Uncoated Book	114422	64874	14159	8123	8657	4776	134197	33.9
Coated Print. & Impres. Pap	39321	28765	2488	1956	5507	3702	51464	23.5
Bristols	910	656	44	50	11	13	373	-54.7
Writing and Similar Paper	12955	15478	1971	1465	2246	1725	22926	53.8
Thin (except Cigarette)	12015	17647	1125	1492	847	1049	10645	-0.6
Total Pkg & Other Paper	93588	71124	5853	5609	7112	6698	74175	-28.9
Unbleached Kraft Paper	32532	14870	1172	648	960	568	23486	-41.0
Other Pkg. & Indust. Paper	61056	56254	4681	4961	6152	6130	50689	-21.5
Tissue	7040	4830	666	473	864	822	6649	1.5
Paperboard, Total	130478	34518	7738	1902	9534	2462	92724	-39.4
Test or Containerboard	48169	12071	2704	620	3679	851	28157	-59.4
Semi-Chemical Corrugating	52476	11695	3588	768	3388	761	36448	-33.3
Other Paperboard	29832	10751	1447	514	2467	850	28119	-3.2
Convtd Paper&Paperbd Products	94208	310605	9476	31188	11037	34382	102391	20.7
Paper Products, Total	86676	294479	8248	28605	9354	31214	89905	14.1
Paperboard Products, Total	7531	16126	1228	2583	1683	3168	12486	108.1
Wet machine Board	1684	1185	109	83	210	133	1691	8.8
Construction Paper & Board	396496	78338	32112	6480	47992	9231	314825	-30.6
Notes								
Other: No Weight Avail. ($000)		109042		12720		13915	130453	16.3
Total Imports Incl. Other($000)		5578763		498607		471187	5476612	-3.1

EXPORTS

	YEAR 1981		MAY 1982		JUNE 1982		(1)	
Pulpwood, Roundwood (cords)	188598	10555	17866	1271	16909	1140	117556	-19.4
Pulpwood Chips	3846049	314037	297309	23775	207313	15314	3054696	-16.2
Total All Exports	10663148	4905814	911886	401684	989580	396339	10315261	-9.4
Wood Pulp, Total	3677635	1661311	326498	137904	302101	129870	3575304	-7.7
Cotton Pulp and Other Pulp	131910	85195	10282	7257	12682	8708	115756	-19.3
Waste and Old Paper	2212549	268526	194783	22051	288190	21507	2324020	-2.7
Paper, Board & Products, Total	4641054	2890782	380323	234473	386607	236254	4300181	-13.7
Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board	4033988	2079837	333510	165019	335945	158855	3766290	-13.0
Paper, Pbd & Prod ex Cnst&WMB	4561410	2853148	373693	231050	381650	233622	4235235	-13.4
Paper & Paperboard, Only	3954344	2042303	326879	161596	330988	156223	3701344	-12.6
Paper, Total	1008409	846775	81806	66347	78361	62220	932203	-9.4
Newsprint	270460	139702	35182	17075	28714	13131	337527	61.1
Printing & Writing	383317	354608	21045	21711	23918	22586	261783	-37.8
Uncoated Groundwood	119673	91966	4193	4364	5962	4804	61140	-51.6
Clay Coated Paper	88597	78328	7460	5993	6907	5478	81174	-13.6
Uncoated Free Sheet	116752	119591	6058	6689	7747	7471	76960	-41.1
Other Printing & Writing	58295	64723	3334	4665	3301	4834	42509	-39.4
Total Pkg. & Other Paper	302887	304623	23399	25513	22276	22939	305185	-7.9
Unbleached Kraft	110801	50980	6044	2624	8812	3619	91749	-29.6
Other Pkg. & Indust. Paper	192086	253643	17[illegible]56	22889	13464	19320	213436	6.2
Tissue	51745	47842	2180	2049	3454	3564	27708	-58.4
Paperboard, Total	2945935	1195528	245073	95249	252627	94003	2769142	-13.6
Solid Wood Pulp	2772413	1110744	231435	88771	239173	87120	2624726	-12.0
Total Linerboard	1973487	660285	165805	48975	183231	52897	1847485	-14.1
Bleached Kraft Linerboard	151979	52546	3350	1351	4167	1686	55730	-72.4
Unbleached Kraft Linerbd	1821509	607739	162454	47624	179065	51211	1791755	-8.1
Other Unbleached Kraft	148855	63341	12162	5237	9161	4412	164268	2.4
Other Bleached Kraft	584250	367530	47919	32873	43396	28534	545830	-9.3
Semi-Chemical Corrugating	65821	19588	5549	1687	3385	1276	67144	-3.9
Recycled Paperboard	173522	84784	13638	6478	13454	6883	144416	-34.5
Convtd Paper&Paperbd Products	607066	810845	46814	69454	50662	77399	533890	-18.8
Paper Products, Total	362337	580602	29103	50607	29849	57798	328511	-12.8
Paperboard Products, Total	244729	230243	17711	18847	20813	19602	205379	-26.9
Wet Machine Board	10812	7039	1712	749	1105	695	10986	-10.6
Construction Paper & Board E	68832	30595	4919	2674	3852	1937	53960	-34.5
Notes								
Other: No Weight Avail. ($000)		11235		1137		869	10118	1.2
Total Exports Incl. Other($000)		4917049		402822		397208	4576738	-11.7

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES

1967 = 100

	1980	1981	APRIL	MAY	JUNE	JULY	Annual Rate Y-T-D 1982	% Change from Same Period Last Year
Pulp, Paper and Products except Building Grades	250.6	270.8	276.4	275.4	274.6	272.9	275.5	2.9
Pulp Paper & Products, ex. Building Grades & ex Waste Paper #	251.3	272.4	278.9	278.0	277.3	275.6	278.1	3.3
Total Wood Pulp	380.3	397.1	392.3	398.2	390.3	370.5	397.6	1.3
Total Paper	256.8	279.8	291.7	288.8	288.2	287.0	289.2	5.0
Total Paper, exc. Newsprint	249.3	271.1	280.4	278.4	279.4	278.9	280.4	5.2
Newsprint	279.7	307.5	330.0	324.0	321.0	318.4	320.9	6.3
Total Paperboard	234.6	258.1	261.2	258.8	255.9	255.0	259.0	1.2
Total Paper and Paperboard #	249.9	273.1	282.1	279.4	278.1	277.0	279.7	3.8
Converted Products	238.5	258.8	265.0	264.7	265.0	264.6	264.6	3.4
Waste Paper	208.7	175.7	128.1	121.5	115.2	115.6	124.8	-32.5
All Commodities	268.8	293.4	297.9	298.6	299.4	300.6	298.8	2.5
Industrial Commodities	274.8	304.1	309.9	309.5	310.7	313.0	311.1	3.4

SOURCE: Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor # Computed by API

PAPER AND ALLIED PRODUCTS COMPANIES
SALES AND EARNINGS

	Sales			NET PROFIT AFTER TAXES[1/]				% Change Profits '82/'81
	1982 ---$ Million---	1981	% Change Sales '82/'81	1982 $ Mil.	Profits/Sales %	1981 $ Mil.	Profits/Sales %	
33 Paper and Allied Products Companies								
First Quarter	9,707	10,400	-6.7	268	2.8	532	5.1	-49.8
Second Quarter	9,998	11,003	-9.1	307	3.1	602	5.5	-49.0
First Half	19,705	21,404	-7.9	574	2.9	1,134	5.3	-49.4
13 Paper Related Companies								
First Quarter	13,138	13,596	-3.4	489	3.7	652	4.8	-25.1
Second Quarter	13,443	13,899	-3.3	614	4.6	700	5.0	-12.2
First Half	26,580	27,495	-3.3	1,103	4.2	1,352	4.9	-18.4

[1/] Excludes extraordinary gains or losses, including those resulting from sale of mills, plant and property, writedowns of closed units, etc.

Continued from Page 11

Sales and Earnings

Sales of 33 paper and allied products companies in the second quarter of 1982 totaled $10 billion, 9.1% below the second quarter 1981 total. These companies earned $307 million for a sales margin of 3.1%. The 1982 profits total was 49% below its year-ago level.

For the entire first half, these companies showed a 7.9% decline in sales and a 49.4% decline in profits. However, as noted last month on the basis of a somewhat smaller sample, paper companies showed an increase in both sales and earnings from the first to the second quarter of the year.

The data for these companies, together with data for 13 non-paper companies with major operations in the paper industry, are shown in the table on the lower half of page 10. Many of these non-paper companies have pulp and paper operations large enough to rank with the top 10 paper and allied products companies.

Technical Note:

The Department of Commerce reported that it will now compile its paper industry wholesaler's sales data only at the level of total paper and paper products, and will no longer calculate sales and inventories of the paper sectors separately. The Industry Data Sheet had been showing sales and inventories for the total group and for the paper sector separately.

This Industry Data Sheet will now substitute a new series: shipments of fibre boxes (corrugated shipping containers) as reported by the Fibre Box Association.

Statistics of Paper

The 1982 issue of the Statistics of Paper, Paperboard and Wood Pulp will be mailed to member companies within the coming month. Non-members may order copies from the Economics Department at $140 per copy.

Continued from Page 11

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INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

August 30,1982

	PRODUCTION (000 TONS)					
	July 1982	June 1982	July 1981	Jan - July 1982	- 1981	% Change 82/81
PAPER GRADES	P	R				
Newsprint	400	423	446	3020	3016	0.1
Printing & Writing	1163	1302	1226	8967	9256	-3.1
Uncoated Groundwood (s)	114	118	112	817	857	-4.6
Coated Paper (s)	392	432	386	2870	2858	0.4
Uncoated Free Sheet Paper (s)	563	640	621	4496	4696	-4.2
Thin Paper (s)	24	30	25	198	201	-1.5
Cotton Fiber Paper (s)	9	10	9	73	72	1.0
Bleached Bristols (s)	62	72	74	513	572	-10.3
Tissue Paper	330	362	347	2536	2614	-3.0
Total Pkg & Other Paper	410	424	420	3058	3310	-7.6
Unbleached Kraft Packaging & Indl. Converting (s)	285	290	297	2110	2313	-8.8
Other Paper *	125	135	123	947	997	-5.0
TOTAL PAPER	2303	2511	2439	17581	18196	-3.4
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1088	1187	1265	8576	9407	-8.8
Unbleached Kraft Linerboard	1004	1106	1169	7947	8730	-9.0
Other Unbl. Kraft Paperboard	84	81	95	629	677	-7.0
Semichemical Paperboard	344	378	389	2591	2856	-9.3
Bleached Paperboard	294	310	323	2195	2357	-6.9
Recycled Paperboard	481	547	525	3875	4198	-7.7
TOTAL PAPERBOARD	2208	2421	2502	17236	18817	-8.4
TOTAL PAPER AND PAPERBOARD	4511	4932	4941	34817	37013	-5.9

WOOD PULP (ALL GRADES)	June 1982	May 1982	June 1981	Jan - June 1982	- 1981	% Change 82/81
Dissolving & Special Alpha	72	108	120	604	695	-13.0
Bleached Sulphite	112	107	122	663	744	-10.8
Unbleached Sulphite	26	34	34	173	202	-14.2
Bleached & Semi-Bl. Sulph.	1681	1708	1695	10146	10218	-0.7
Unbleached Sulphate	1535	1551	1657	9386	10129	-7.3
Semichemical	325	325	337	1942	2058	-5.6
Groundwood and Thermo-Mechanical	429	433	452	2602	2672	-2.6
TOTAL PULP DIVISION DATA	4181	4266	4417	25517	26716	-4.5

(s) - Shipments   R - Revised   E - Estimate
P - Preliminary   * - Revised series based on A.P.I. data.

August 31, 1982	Full Year		INDUSTRY DATA			Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1980	1981	May	June	July		
Total Production (API) | excluding |	61147	62260	5022	4932	4511	59686	-5.9
Total Seasonally Adjusted |construction|			4803	4792	4781	59181	-5.9
Imports (including Products) | and wet | E	8302	7942	713	657	N.A.	7845	-2.3
Exports (including Products) | machine | E	5148	4561	374	382	N.A.	4279	-12.6
Apparent Consumption | grades |	64301 a	65641 b	5142	5067	5088	62750c	-5.0
Paper Production % Tonnage Capacity	92.5e	92.2e	81.0	85.4	75.1	86.5eh	-
Paperboard Production % Tonnage Capacity	91.8e	91.2e	83.7	81.1	71.6	84.0e	-
			April	May	June		
IMPORTS |Including Construction and |	8778	8339	600	746	705	8099	-5.1
EXPORTS | WMB Grades (excl. HPB) |	5214	4641	343	380	387	4300	-13.7
MARKET WOOD PULP PRODUCTION - Tons (000)	6488	6190	494	516	491	5999	-4.2
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)	50737	51985	4209	4266	4181	51033	-4.5
WOOD PULP IMPORTS - TONS (000)	4051	4087	306	302	287	3543	-18.1
WOOD PULP EXPORTS - TONS (000)	3806	3678	316	326	302	3575	-7.7
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS | excluding |			April	May	June		
Wood Pulp |consumption for|	49476	50827	4298	4088	4020	49504	-5.4
Waste Paper |construction & |	13551	14022	1157	1191	1136	13877	-3.8
TOTAL | WMB grades |	63027	64849	5455	5279	5156	63381	-5.1
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	79574	79747	6791	6300	6737	79502	-1.8
EMPLOYMENT (000)			May	June	July		
Paper and Allied Products Total	692.8	687.8	660.1	664.4	655.5	663.2	-3.6
Pulp, Paper and Board Mills Total E	268.4	266.6	254.9	258.7	255.4	257.2	-3.8
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products	7.84	8.60	9.14	9.27	9.40	9.14	8.7
Pulp, Paper Mills E	9.15	10.06	10.62	10.82	10.90	10.64	8.6
Paperboard Mills E	9.28	10.23	10.93	10.96	11.10	10.85	8.1
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1982 Q1	1982 Q2	1982 Q3		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	6.80	6.72	6.05	5.76	6.16	5.91y	-12.1
INDEX OF OUTPUT PER MAN-HOUR (1977=100)			May	June	July		
|IN PULP, PAPER |...Production Workers	108.1	109.0	107.4	106.4	107.2	109.3	-0.4
|AND BOARD MILLS|...All Employees	106.6	107.9	105.3	104.7	105.6	107.5	-1.0
PAPER AND ALLIED PRODUCTS (Million $)			April	May	June		
Industry Shipments (Dept. of Commerce)* RS	72731	79505	6463	6346	6450	78346	-1.0
Pulp, Paper and Paperboard* RS	31785	34260	2692	2619	2707	33034	-2.7
Inventories (End of Period) - Total Industry* RS	7788	8825	8842	8810	8768	8768	3.5
Pulp, Paper and Paperboard* RS	2931	3461	3560	3590	3588	3588	11.5
			1981 Q3	1981 Q4	1982 Q1		
Sales (Corporations Only, FTC)	56250	62699 RS	16073	15402	15125	60500	-0.3
Earnings (Corporations Only, FTC)	2800	3110 RS	533	823	418	1672	-45.6
Depreciation (Corporations Only, FTC)	2026	2267 RS	588	558	580	2320	5.1
Net Worth (Corporations Only, FTC)	24396	26558 RS	26114	26558	26825	26825	6.8
PRICE INDEXES (Bureau of Labor Stats)1967=100			May	June	July		
Pulp, Paper & Products, ex. Building Grades	250.6	270.8	275.4	274.6	272.9	275.5	2.9
Wood Pulp	380.3	397.1	398.2	390.3	370.5	397.6	1.3
Waste Paper	208.7	175.7	121.5	115.2	115.6	124.8	-32.5
Paper	256.8	279.8	288.8	288.2	287.0	289.2	5.0
Paperboard	234.6	258.1	258.8	255.9	255.0	259.0	1.2
PAPER DEMAND (INDEXED: 1967=100)			May	June	July		
Total Paper Production *	143.9	148.3	136.0	140.5	141.8	143.4	-3.4
Paper New Supply *	136.1	137.9	130.8	131.7	133.8	134.0	-3.0
Total End - Use Index *	146.3	150.3	148.9	147.2	147.5	149.2	-0.5
Production of Nondurable Goods *...(19%)	161.2	164.7	154.9	154.2	154.2	155.7	-6.3
Disposable Income (Constant $) *...(23%)	151.0	154.3	158.1	157.0	159.6	157.4	2.4
Total Printing and Publishing *...(58%)	139.5	144.0	143.3	141.0	140.5	142.8	0.5
Trend Factor	----	----	---Not	Available---	----	----	----
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *	135.4	137.1	127.7	123.0	121.5	127.7	-8.4
Production for Domestic Use	128.3	132.9	121.5	117.6	117.2	123.0	-8.9
Total End - Use Index *	146.1	149.3	140.4	140.0	140.4	140.4	-6.9
Production of Consumer Goods *...(60.49%)	145.4	147.8	143.5	143.7	144.5	142.4	-4.5
Production of Equipment *...(6.32%)	145.2	151.8	140.6	137.6	136.0	142.6	-5.7
Production of Materials *...(32.89%)	147.6	151.5	134.6	133.7	133.7	136.3	-11.5
Trend Factor	----	----	---Not	Available---	----	----	----
NEWSPRINT MARKETS			April	May	June		
Consumption by Publishers - Tons (000)	11121	11205	951	968	891	10983	0.0
Newspaper Pub. and Printing Empl. Total(000)	422.8	421.9	423.9	424.1	424.8	424.7	1.4
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)	118372	122525	10467	11847	9003	118209	-0.7
WHOLESALERS SALES AND INVENTORIES (Million $)(J)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	21296	24381	2018	2000	2000	24128	1.4
Inventories (End of Period)	1849	2095	2054	2000	2000	2000	-1.2
FIBRE BOX DATA (Fibre Box Association)			May	June	July		
Fibre Box Shipments (Million square feet)	241376	246152	16712	20076	18610	133465	-6.8
Container'bd Inventory at Mill & Plant(000Tons)	1984	2729	2671	2649	2607	2607	10.0
RETAIL TRADE (Million $)							
Total Retail Sales *	953984	1044587	90841	87887	88723	1055993	1.7
Nondurable Goods Stores Sales *	656231	716262	61425	60800	61203	728409	2.6
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*	147.0	150.9	139.2	138.2	138.1	140.1	-8.0
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100)	268.8	293.4	298.6	299.4	300.6	298.8	2.5
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)	246.8	272.4	287.1	290.6	292.2	286.2	7.1
			April	May	June		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $)	313.5	333.4	328.4	329.3	331.9	331.9	4.1
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$)			1981 Q4	1982 Q1	1982 Q2		
G.N.P. or Expenditure - Current $	2633.1	2937.7	3003.2	2995.5	3041.2	3018.4	4.7
G.N.P. or Expenditure - 1972 $	1474.0	1502.6	1490.1	1470.7	1475.3	1473.0	-2.1

lb/capita

	Pap&Papbd	Othr		Totl	Popul(mil)
.a	565	+ 26	=	591	227.7
.b	571	+ 21	=	592	229.7
.c	542	+ 15	=	557	231.5

.E - Last month estimated by API
.e - estimated by API
e - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
J - Census unpublished data; standard dev. = 6-8%
N.A. - Not Available
P - Preliminary
Q - Quarter
R - Revised
RS - Revised Series
y - Full year estim. by U.S. Dept. of Com.
* - Seasonally Adjusted

A2500-2

Paper
Paperboard
& Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 60 - No. 9 September, 1982

Paper and Paperboard Production Turning Upward

Paper and paperboard production rose modestly in the last two weeks of August and, following a seasonal drop for Labor Day in the first week of September, moved further upward in the second week. The seasonally adjusted trend of production in August (based on the two month July/August average, to eliminate random fluctuations) was 58.8 million tons a year. This compared to the July trend position of 57.8 million tons per year and the June low for the year of 57.5 million tons per year. At its 1982 peak in February-March, production was at the rate of 61.6 million tons per year. If paper and board production continues at the rate reached in the second week of September, the September production trend would move above 60 million tons per year.

The modest uptrend was experienced by virtually all the separate paper grades. Printing and writing paper production, for example, totalled 1.33 million tons in August, second only to the March total. On a seasonally adjusted basis, the August trend position of printing/writing paper shipments was the highest for the year. Total packaging and industrial grades showed a fairly strong growth in August, with the August trend position at a five month high. Production of "other" packaging and industrial converting papers, in particular, at a seasonally adjusted rate of 1.8 million tons per year in August, marked a high for the year.

The rate of newsprint production eased slightly in August, bringing the eight month total 1.6% below the corresponding year-ago level. Newspaper publishers have been reducing their stocks of newsprint since March. The latest available data, as of the end of July, show their newsprint stocks at 1.67 million tons, about 10% below the peak level reached at the end of March. Nevertheless, the July level was equivalent to a relatively high 55 days of supply.

Continued on Page 2

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Continued from Page 1

Among the paperboard grades, the production of unbleached kraft linerboard in August, at 1.2 million tons, was second only to the March level. Nevertheless, the eight month total was still 8.7% below the comparable 1981 level. Production was supported to some extent by exports; in the first eight months of 1982 production for export was at the rate of 1.9 million tons per year, 4.8% below the year-ago total. Semichemical paperboard production for export was about 8% above its year-ago level, but the rate was only 185,000 tons per year. Solid bleached board production for export, was down nearly 5%, so that the total paperboard production for export was 4% below its year-earlier total. However, the annual rate - 2.67 million tons per year - compared favorably to the 2.62 million tons produced for export in all of 1981.

The August strength in kraft linerboard production also reflected an increase in shipments of fibre boxes. The Fibre Box Association reported shipments in August at 20.4 billion square feet, the highest level since March, the second highest for the year and only 2% below the August 1981 level. Inventories of containerboard at fibre box plants fell 55,000 tons in August, bringing the total to the lowest level since March and the weeks of supply to 6.4 at the August rate of consumption. Containerboard mills had about another equivalent week of supply in inventory.

Production of the boxboard grades showed similar strength, with the August 1982 total the second highest month for the year; the peak this year was in March.

Total paperboard production for the first eight months of 1982 was 8% below the corresponding year-ago total, with containerboard grades produced for domestic use down 9.1% and boxboard grades down 7.8%.

Capital Expenditures

The Department of Commerce reported that expenditures for plant and equipment by paper and allied products companies were at a rate of $6.04 billion per year in the first half of 1982, about 10% below the corresponding 1981 level. Commerce revised the second quarter level upward by about 5%, reflecting additional information received from their survey companies. Commerce also reported that paper and allied products companies expect to increase their expenditures for new plant and equipment in the third and fourth quarters of the year to a rate of nearly $6.5 billion per year. This would bring the 1982 total to $6.28 billion, about 6.5% below the $6.72 billion spent in 1981.

Continued on Page 10

PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS

(Thousands of Tons)

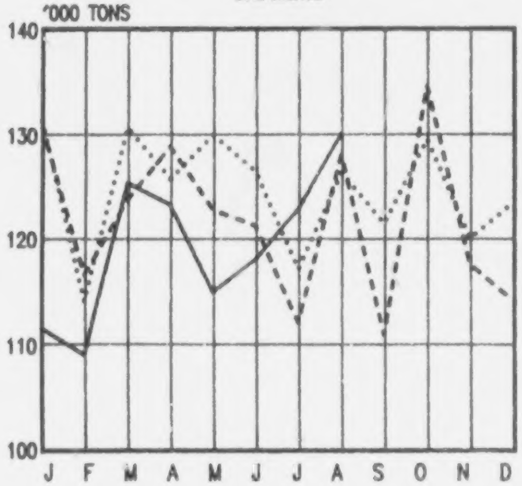
	YEAR		MAY	JUNE	JULY	AUG.	Annual Rate Y-T-D	% Change from same Period Last Year
	1980	1981	1982	1982	1982	1982	1982	
PAPER					R	P		
Newsprint - Production	4272	5239	424	423	400	410	5146	-1.6
- Shipments	4687	5220	414	420	386	400	5026	-3.0
Printing & Writing	15577	15738	1270	1301	1223	1329	15528	-2.1
Groundwood Paper - Shipments	1498	1463	115	118	123	130	1434	-2.9
- New Orders	1475	1449	116	113	140	119	1453	-2.3
- Unfilled Orders	110	100	102	98	117	100	100	-15.8
Coated Paper - Shipments	4673	4940	408	431	397	437	4968	1.0
- New Orders	4753	4853	381	432	396	437	4804	0.9
- Unfilled Orders	391	360	307	306	312	306	306	-21.0
Unctd Free Sheet - Shipments	8016	7898	641	640	604	650	7792	-2.8
- New Orders	7728	7735	621	645	610	644	7693	-2.6
- Unfilled Orders	548	370	288	295	304	300	300	-29.5
Thin Paper - Shipments	333	336	28	30	24	27	330	-4.0
Cotton Fiber Paper - Shipments	126	125	11	10	9	10	124	0.5
Bleached Bristols - Production	932	974	68	71	67	75	880	-10.5
Tissue Paper - Production	4375	4519	365	361	338	370	4395	-3.0
Total Packaging & Other Paper *	5571	5550	395	413	393	483	5276	-7.3
Unbl. Kraft Paper - Shipments	3962	3873	272	291	271	326	3651	-8.1
Other Paper - Production *	1609	1678	124	122	122	157	1625	-5.4
TOTAL PAPER-Production-Unadj.	30195	31043	2455	2498	2354	2592	30345	-3.1
-Production-S.A.			2377	2440	2526	2500	30126	-3.1
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	23881	24231	2005	1875	1731	1971	23004	-8.3
Unbl. Kraft Linerboard (1)	14232	14540	1197	1106	1006	1206	13732	-8.7
Production for Export	2380	1887	181	163	146	170	1932	-4.8
Other Unbl. Kraft Paperboard	1063	1062	98	81	86	99	1096	-3.4
Semichemical Paperboard	4723	4719	379	378	344	349	4410	-8.5
Production for Export	322	155	18	18	17	15	185	7.9
Solid Bleached Paperboard	3862	3910	329	310	295	316	3767	-6.6
Production for Export	545	557	48	48	43	39	534	-4.9
Recycled Paperboard	7071	7001	565	547	494	572	6689	-7.4
Production for Export	83	24	1	1	1	1	16	-41.5
TOTAL PAPERBOARD-Prod.-Unadj.	30952	31232	2569	2421	2225	2543	29694	-8.1
- Containerboard Prod.(Dom. Use)	18070	18040	1539	1444	1325	1523	17784	-9.1
- Boxboard Prod.(Dom. Use) (2)	5477	5544	448	428	394	457	5295	-7.8
- All Other P'bd Prod.(D.U.) (2)	4075	4026	335	319	299	338	3948	-6.0
- Total Paperbd Prod. for Export	3328	2622	247	230	207	225	2667	-4.4
TOTAL PAPERBOARD PROD. - S.A.			2426	2340	2327	2454	29206	-8.1
TOTAL PAPER AND PAPERBOARD Production - actual	61147	62275	5025	4920	4579	5135	60039	-5.6
Production - S.A.			4805	4779	4853	4854	59332	-5.6

(1)Includes all exports of Kraft paperboard.
(2)Data for unbl. Kraft folding boxboard incl. in All Other P'bd.
* Revised series based on A.P.I. data, beginning January, 1981.

P Preliminary
R Revised
S.A. Seasonally Adjusted

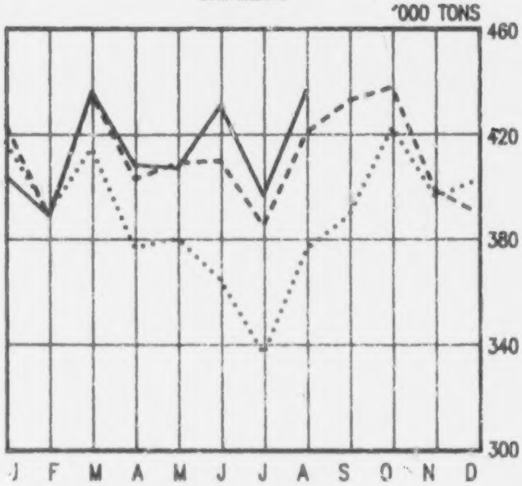
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



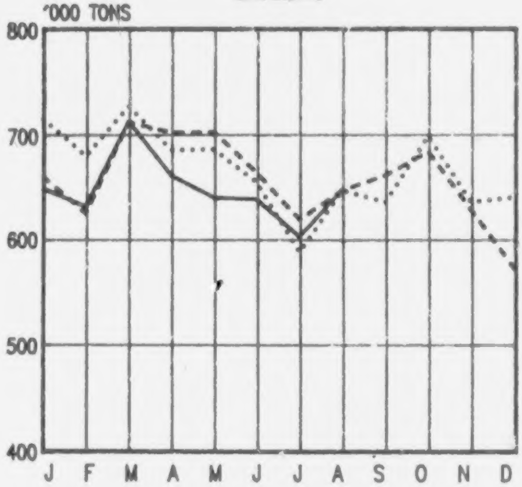
COATED PAPER

SHIPMENTS



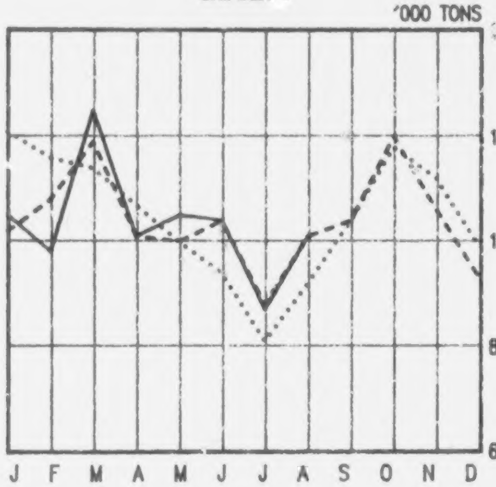
UNCOATED FREE SHEET PAPERS

SHIPMENTS



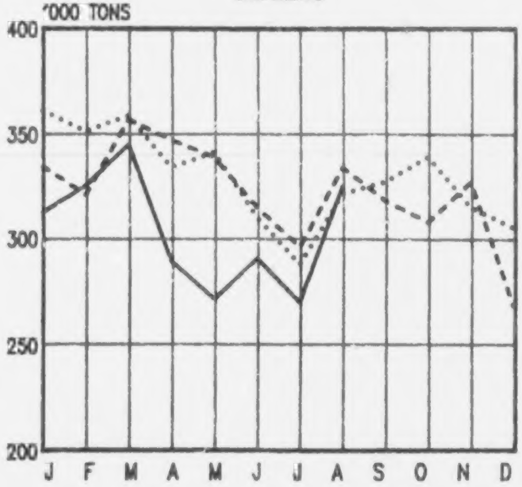
COTTON FIBER PAPER

SHIPMENTS



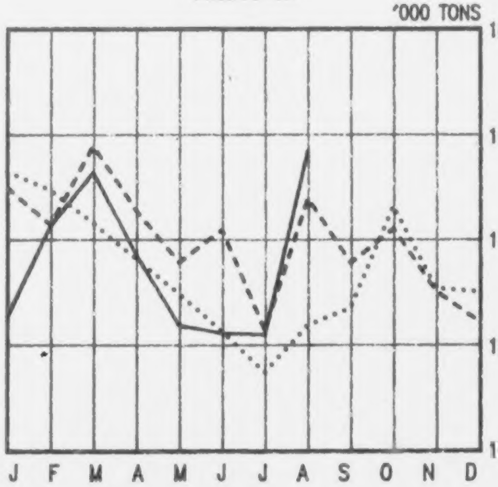
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1980 ········ 1981 ----- 1982 ———

WOOD PULP STATISTICS
(Thousands of Tons)

	YEAR 1980	1981	APRIL 1982	MAY 1982	JUNE 1982	JULY 1982	Annual Rate Y-T-D 1982	% Change from same Period Last Year
TOTAL WOOD PULP					R	P		
Total Wood Pulp - Production	50737	51981	4214	4265	4161	3734	50118	-5.1
- Imports	4051	4087	306	302	287	289	3532	-17.3
- Exports	3806	3678	316	326	302	261	3512	-5.8
- New Supply	50982	52380	4204	4241	4146	3762	50139	-6.0
Dissolving Pulp - Production	1508	1353	95	108	72	55	1122	-17.3
- Imports	263	249	23	10	15	6	183	-27.2
- Exports	769	784	52	69	55	32	620	-20.6
- New Supply	1002	817	66	49	32	30	685	-17.2
Paper Grades Chemical Pulp - Production	40436	41385	3383	3388	3334	2972	39894	-5.0
- Imports	3615	3655	276	279	259	266	3193	-16.6
- Exports	2956	2870	263	256	245	228	2873	-1.6
- New Supply	41095	42170	3395	3423	3349	3010	40314	-6.2
Groundwood and Thermo-Mech. - Production	4767	5320	420	433	429	407	5158	-2.4
- Imports	173	183	7	12	12	16	156	-17.8
- Exports	81	24	1	1	2	1	18	-31.8
- New Supply	4859	5478	427	445	439	423	5297	-2.8
Semi-Chemical - Production	4026	3924	316	325	326	300	3843	-5.4
- Imports	0	0						
- Exports	0	0	------ Included with Groundwood Pulp ------					
- New Supply	4026	3924	316	325	326	300	3843	-5.4
MARKET WOOD PULP								
Total Market Wood Pulp - Production	6488	6190	494	516	492	382	5[illegible]38	-6.3
- Imports	2947	2924	229	173	174	197	2441	-17.8
- Exports	3513	3352	272	282	262	248	3147	-4.3
- New Supply	5921	5761	451	407	404	331	5093	-13.3
Dissolving Pulp - Production	1506	1337	97	103	72	56	1121	-15.0
- Imports	235	241	23	10	14	16	184	-30.9
- Exports	876	787	57	57	61	39	667	-9.0
- New Supply	865	791	63	56	25	32	638	-25.1
Paper Grades Chemical Pulp - Production	4913	4852	397	413	420	326	4678	-4.0
- Imports	2687	2634	199	161	157	175	2212	-16.4
- Exports	2588	2555	215	224	201	208	2480	-2.3
- New Supply	5012	4931	381	350	376	293	4410	-11.4
Groundwood Pulp and All Other - Production	69	1	0	0	0	0	0	0.0
- Imports	26	49	7	2	3	5	45	-24.8
- Exports	50	10	0	0	0	0	0	0.0
- New Supply	44	40	7	2	3	5	45	1.2

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp & Raw Materials Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

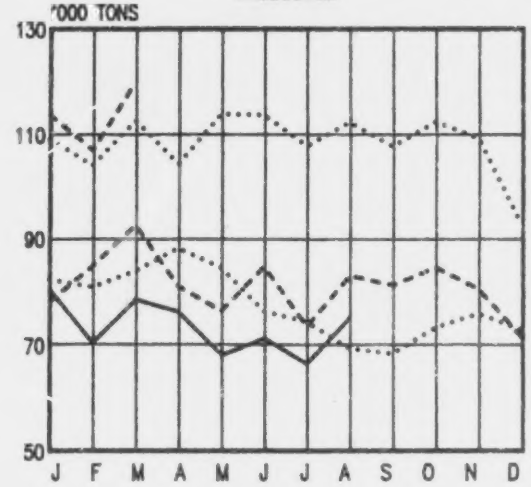
FIBROUS RAW MATERIALS
(Thousands of tons)

CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	63027	64849	5455	5279	5137	4721	62386	-5.4
Total Wood Pulp	49476	50827	4298	4088	4001	3688	48721	-5.8
Waste Paper	13551	14022	1157	1191	1136	1033	13665	-4.0
INVENTORIES								
Total Wood Pulp at Pulp Mills	117	188	205	208	205	189	189	-0.3
Market Pulp at Pulp Mills	239	389	418	433	471	439	439	29.8
Waste Paper at Paper &Bd. Mills	1008	1216	1048	1009	1047	1077	1077	-2.3
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	18	33	32	33	38	36	36	33.3

SOURCES: Wood Pulp Data, Pulp & Raw Materials Group, API. Waste Paper Data, Paper Recycling Committee, API
P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

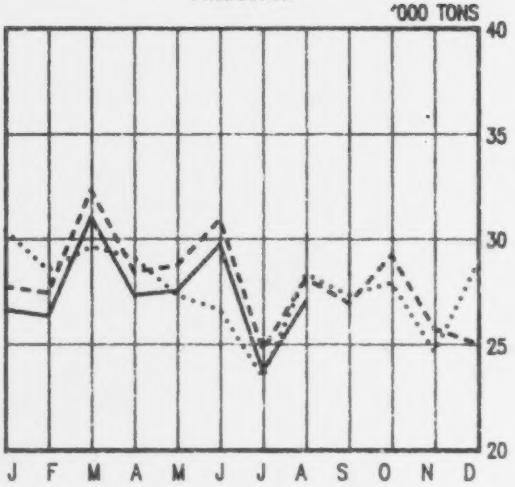
BLEACHED BRISTOLS

PRODUCTION



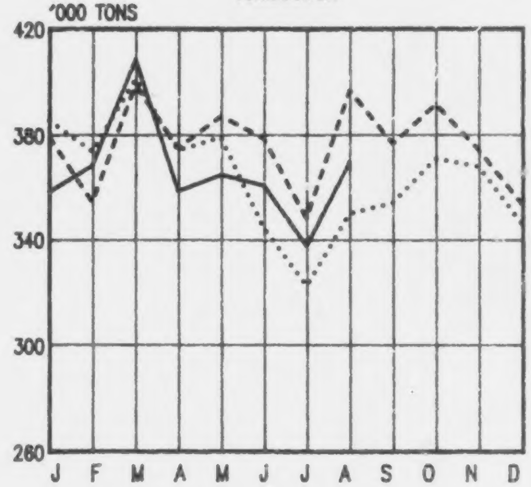
THIN PAPER

PRODUCTION



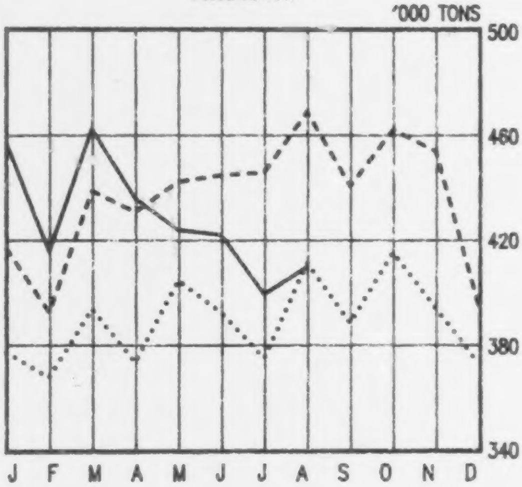
TISSUE PAPER

PRODUCTION



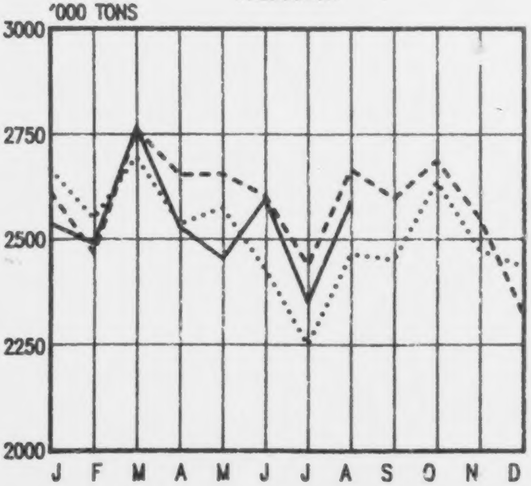
NEWSPRINT

PRODUCTION



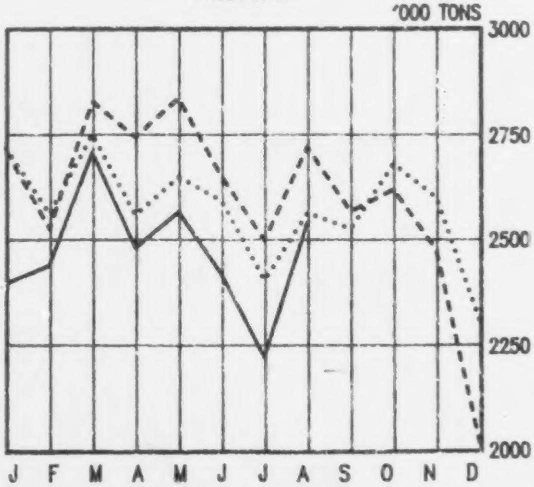
TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1980········ 1981----- 1982 ———

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic Foot) Cords)

PULPWOOD		YEAR 1980	YEAR 1981	APRIL 1982	MAY 1982	JUNE 1982	JULY 1982	Annual Rate Y-T-D 1982	% Change From same Period Last Year
Total U.S.	- Total Receipts	81805	78547	6500	6241	6863	6844	77798	-2.4
	- Total Consumpt.	78574	78747	6781	6300	6737	6399	79114	-1.8
	- Residues *	28402	30580	2671	2504	2758	2596	30062	-3.5
	- Inventories	6285	6045	5074	4748	5738	5023	5023	-10.3
So. Atlantic	- Total Receipts	28742	24881	1972	1899	2042	1797	23301	-6.9
	- Total Consumpt	25743	24815	1940	1918	2045	1788	23553	-7.5
	- Residues *	8776	8770	683	622	894	810	7929	-11.0
	- Inventories	1158	1051	888	865	811	821	821	2.3
Northeast	- Total Receipts	7710	7803	536	530	639	655	7390	-3.4
	- Total Consumpt	7487	7712	670	818	587	584	7380	-4.3
	- Residues *	1849	1382	125	119	130	118	1390	-4.3
	- Inventories	724	635	568	482	323	581	581	-10.6
South Central	- Total Receipts	27509	27744	2281	2178	2237	2239	26534	-3.5
	- Total Consumpt	27074	27687	2347	2228	2298	2281	27610	-0.7
	- Residues *	8001	8823	778	680	715	733	8390	-8.7
	- Inventories	1830	1825	1383	1309	1281	1286	1286	-5.9
North Central	- Total Receipts	5514	5850	317	405	478	505	5402	-4.0
	- Total Consumpt	5287	5708	464	470	455	479	5631	-2.7
	- Residues *	1381	1439	98	125	114	118	1301	-7.4
	- Inventories	1210	1106	854	869	819	858	858	-23.4
West	- Total Receipts	14330	13669	1394	1220	1467	1448	15171	9.1
	- Total Consumpt	13978	13825	1381	1066	1372	1269	14830	7.9
	- Residues *	8615	10096	987	958	1105	1016	11052	9.5
	- Inventories	1363	1428	1270	1223	2204	1377	1377	-12.0

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

	YEAR 1981 Tons	YEAR 1981 $000	JUNE 1982 Tons	JUNE 1982 $000	JULY 1982 Tons	JULY 1982 $000	Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	188317	8876	3721	188	5371	232	97985	-40.2
Pulpwood Chips	1684950	51394	176758	6332	131802	3944	1788829	0.7
Wood Pulp, Total	3800713	1648868	278853	118678	266417	108089	3257558	-19.1
Waste Fibrous Materials, Total	120498	21239	12867	2212	9805	1841	117831	-4.5
Paper, Board & Products, Total	8037877	3282788	680805	295404c	553430	234283	7653981	-6.4
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	8001585	3219080	676806	288726	550296	228722	7613291	-6.5
Paper Paperboard & Products	7675713	3210134	637677	287002	514341	226545	7348285	-5.4
Paper & Paperboard, Only	7639420	3146427	633678	280324	511207	220973	7307575	-5.5
Paper, Total	7509823	3112917	624253	277972	502494	218745	7214083	-4.9
Newsprint	6935975	2807549	570041	247606	449475	191083	6592323	-6.3
Printing, Writing & Rel. Pap.	482408	242844	47485	24831	47319	23434	551475	20.8
Pack. & ind. Conv. Paper	82414	54433	5818	4572	5065	3623	62866	-31.2
Special Industrial Paper	2279	3639	153	275	155	276	1574	-35.7
Tissue Paper	6748	4452	756	687	480	330	5844	-2.6
Paperboard, Total	129597	33510	8425	2352	8713	2227	83492	-35.9
Convtd Paper&Paperbd Products	36292	63708	3998	6678	3134	5572	40690	39.5
Wet Machine Board	1084	573	156	80	109	61	1100	5.5
Construction Paper & Board	361101	72080	42972	8312	38980	7688	304616	-25.3

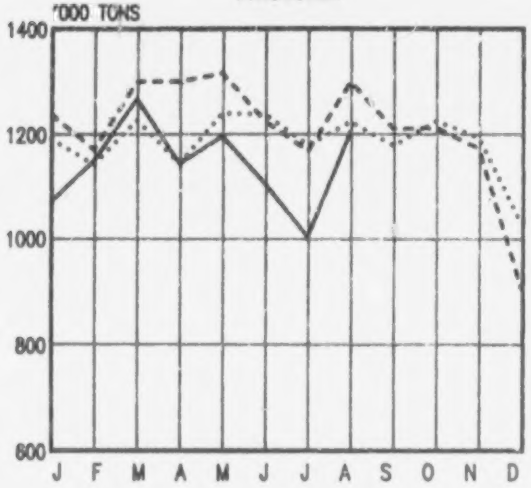
EXPORTS TO CANADA

Pulpwood, Roundwood (in cords of 128 cubic feet)	185312	10444	15790	1090	8706	667	113210	-20.7
Pulpwood Chips	38471	1525	4242	235	1634	75	30045	-24.0
Wood Pulp, Total	118821	56740	8029	4601	5515	2586	115615	-3.7
Cotton Pulp & Other Pulp	5900	3660	332	236	471	290	6005	-14.9
Waste Paper	358523	41185	17567	2337	18643	2343	245585	-34.2
Paper, Board & Products, Total	695992	504904	37356	31173	39370	30503	503652	-33.8
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board	527486	365270	25619	19943	28803	20541	365885	-37.5
Paper, Paperboard & Products	656327	485613	35700	30476	37227	29804	481598	-32.7
Paper & Paperboard, Only	487822	350041	23962	19246	26760	19842	343631	-36.3
Paper, Total	278136	247806	13585	13931	14387	13532	188115	-38.7
Newsprint	8435	6155	235	277	429	368	2814	-73.8
Printing, Writing & Rel. Pap.	182823	134132	8621	7237	7982	6850	110930	-39.4
Pack. & Ind. Conv. Paper	24365	17449	1591	1184	1798	1131	18146	-26.5
Special Industrial Paper	75854	84471	2860	5025	4017	5015	52407	-34.8
Tissue	6858	5600	278	208	161	169	3819	-53.0
Paperboard, Total	209686	102235	10378	5315	12374	6310	155516	-33.0
Convtd Paper&Paperbd Products	168505	139634	11737	11230	10467	9962	137967	-21.6
Wet Machine Board	7201	4215	801	333	418	222	5048	-30.8
Construction Pap & Bd. E	32464	11014	1056	364	1724	477	17006	-56.1

SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data
c - corrected

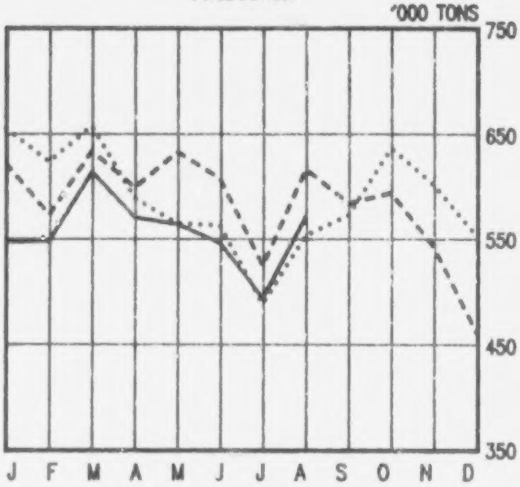
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



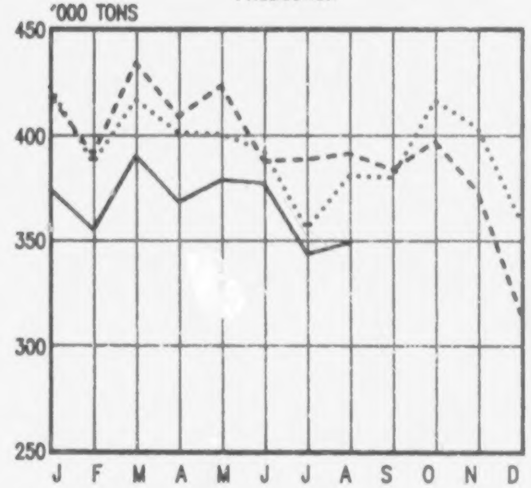
RECYCLED PAPERBOARD

PRODUCTION



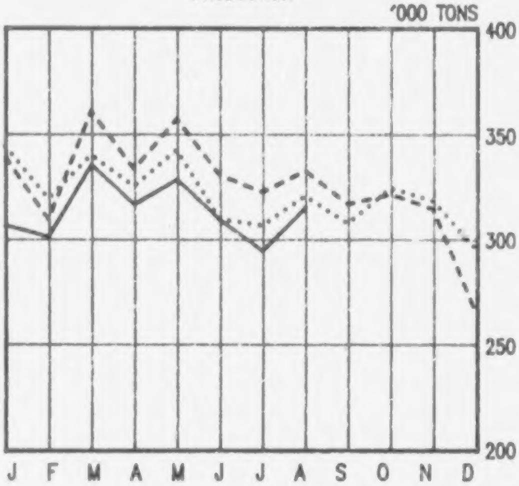
SEMICHEMICAL PAPERBOARD

PRODUCTION



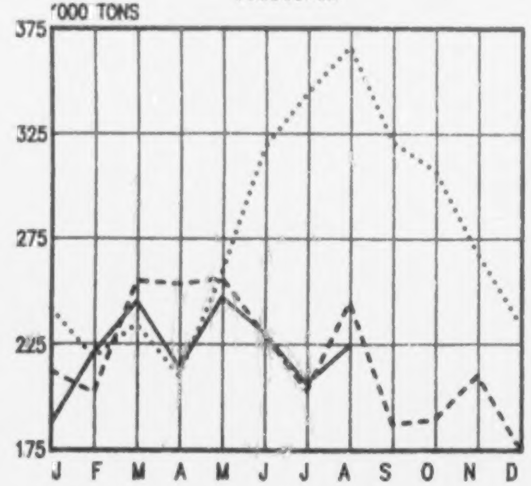
SOLID BLEACHED PAPERBOARD

PRODUCTION



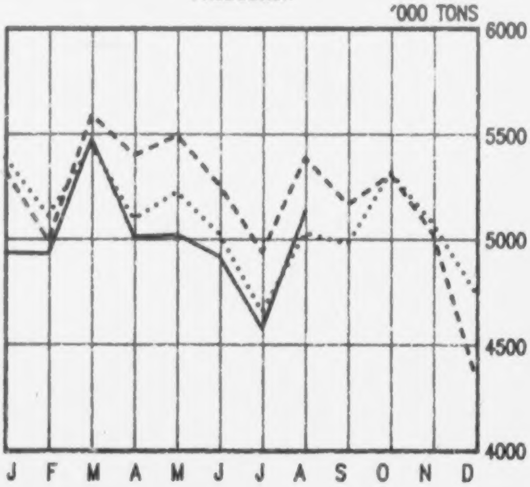
PAPERBOARD FOR EXPORT

PRODUCTION



TOTAL PAPER AND PAPERBOARD

PRODUCTION



1980 ········ 1981 - - - - 1982 ———

PULP, PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 1981 Tons	YEAR 1981 $000	JUNE 1982 Tons	JUNE 1982 $000	JULY 1982 Tons	JULY 1982 $000	(1) Annual Rate Y-T-D 1982	% Change From same Period Last Year
Pulpwood, Roundwood (cords)	188331	9876	3712	186	5371	232	97870	-40.2
Pulpwood Chips	1684989	51400	180358	6488	131802	3844	1785102	1.1
Total All Imports	12559288	5468721	1006226	457272	885066	392868	11812908	-9.8
Wood Pulp, Total	4086888	1764289	287208	121177	288975	116970	3532449	-17.3
Waste Paper	79064	13405	8319	1103	4934	583	67222	-20.6
Other Fibrous Materials	54376	19535	5975	2061	6047	1989	68305	33.2
Paper, Board & Products,Total	8339150	3672493	704724	332931	585110	273424	7944832	-6.2
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	8244842	3361888	693687	298549	576328	243524	7842114	-6.5
Paper, Ppbd & Prds ex Cnst&WMB	7940970	3592989	656522	323568	543368	265081	7602071	-5.3
Paper & Paperboard, Only	7846763	3282364	645485	289186	534584	235181	7489254	-5.6
Paper, Total	7716285	3247847	635951	286724	525750	232828	7404630	-5.0
Newsprint	6877116	2824777	570332	247716	459832	195917	6634762	-6.3
Printing & Writing	638538	347116	57643	31487	59395	31587	689407	14.2
Uncoated Groundwood	458915	218697	40373	20223	41833	19868	471070	6.1
Uncoated Book	114422	64874	8657	4776	9786	5594	131803	27.1
Coated Print.& Impres. Pap	39321	28765	5507	3702	5060	3427	52785	33.8
Bristols	910	656	11	13	16	18	346	-57.6
Writing and Similar Paper	12955	15478	2248	1725	2022	1668	23117	71.2
Thin (except Cigarette)	12015	17647	847	1049	677	1013	10285	0.5
Total Pkg & Other Paper	93588	71124	7112	6698	5913	4863	73715	-28.8
Unbleached Kraft Paper	32532	14870	980	568	1474	642	22657	-43.0
Other Pkg. & Indust. Paper	61056	56254	6152	6130	4439	4221	51057	-19.9
Tissue	7040	4830	864	822	610	480	6746	10.3
Paperboard, Total	130478	34518	9534	2462	8835	2363	94624	-35.6
Test or Containerboard	48169	12071	3679	851	2366	567	28191	-56.1
Semi-Chemical Corrugating	52476	11695	3388	761	3542	765	37313	-28.0
Other Paperboard	29832	10751	2467	850	2927	1031	29119	-5.4
Convtd Paper&Paperbd Products	94208	310605	11037	34382	8782	29900	102818	19.3
Paper Products, Total	86676	294479	9354	31214	7683	27565	90232	13.3
Paperboard Products, Total	7531	16126	1683	3168	1099	2335	12586	92.8
Wet machine Board	1684	1185	210	-133	141	85	1691	2.1
Construction Paper & Board	386496	78338	47992	9231	41602	8249	341169	-22.6
Notes								
Other: No Weight Avail. ($000)		109042		13915		13969	135763	22.3
Total Imports Incl. Other($000)		5578763		471187		406934	5391840	-3.8

EXPORTS

	YEAR 1981 Tons	YEAR 1981 $000	JUNE 1982 Tons	JUNE 1982 $000	JULY 1982 Tons	JULY 1982 $000	(1)	% Change From same Period Last Year
Pulpwood, Roundwood (cords)	188598	10555	16909	1140	9938	679	117798	-19.4
Pulpwood Chips	3846049	314037	207313	15314	284523	24139	3106065	-14.7
Total All Exports	10663148	4905814	989580	396339	797292	348085	10208439	-9.1
Wood Pulp,Total	3677635	1661311	302101	129870	260752	104439	3511550	-5.8
Cotton Pulp and Other Pulp	131910	85195	12682	8708	6040	4555	109574	-21.2
Waste and Old Paper	2212549	268526	288190	21507	173180	19702	2288897	-3.8
Paper, Board & Products,Total	4841054	2890782	386607	236254	357320	219389	4298418	-13.8
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	4033988	2079937	335945	158855	316552	152150	3770809	-13.1
Paper, Ppbd & Prod ex Cnst&WMB	4561410	2853148	381650	233622	351856	217316	4233383	-13.5
Paper & Paperboard, Only	3954344	2042303	330988	156223	311088	150077	3705874	-12.8
Paper, Total	1008409	846775	78361	82220	67803	56186	915264	-12.0
Newsprint	270460	139702	28714	13131	26359	12671	334495	39.9
Printing & Writing	383317	354608	23918	22586	20443	20175	259431	-36.8
Uncoated Groundwood	119673	91966	5962	4804	6374	4811	63332	-48.1
Clay Coated Paper	88597	78328	6907	5478	5989	4938	79844	-13.4
Uncoated Free Sheet	116752	119591	7747	7471	5560	6841	75498	-41.6
Other Printing & Writing	58295	64723	3301	4834	2521	3585	40757	-39.2
Total Pkg. & Other Paper	302887	304623	22276	22939	19174	21423	284457	-10.3
Unbleached Kraft	110801	50980	8812	3619	5558	2521	88169	-30.0
Other Pkg. & Indust. Paper	192086	253643	13464	19320	13617	18902	206288	2.0
Tissue	51745	47842	3454	3564	1826	1917	26880	-57.1
Paperboard, Total	2945935	1195528	252627	94003	243285	93891	2790610	-13.1
Solid Wood Pulp	2772413	1110744	239173	87120	234915	89656	2652478	-11.7
Total Linerboard	1973467	660285	183231	52897	169581	50678	1874268	-13.7
Bleached Kraft Linerboard	151979	52546	4167	1686	6850	2343	59511	-68.9
Unbleached Kraft Linerbd	1821509	607739	179065	51211	162731	48335	1814757	-9.3
Other Unbleached Kraft	148855	63341	9161	4412	11518	4392	160547	-1.8
Other Bleached Kraft	584250	367530	43396	28534	48832	32507	551566	-8.1
Semi-Chemical Corrugating	65821	19588	3385	1276	4984	2080	66095	-4.6
Recycled Paperboard	173522	84784	13454	6883	8370	4235	138134	-33.0
Convtd Paper&Paperbd Products	607066	810845	50662	77399	40769	67239	527509	-18.1
Paper Products, Total	362337	580602	29849	57798	26443	52612	326912	-12.4
Paperboard Products, Total	244729	230243	20813	19602	14326	14627	200598	-25.9
Wet Machine Board	10812	7039	1105	695	1320	607	11679	1.7
Construction Paper & Board E	68832	30595	3852	1937	4145	1466	53357	-32.1
Notes								
Other: No Weight Avail. ($000)		11235		869		746	9950	-8.4
Total Exports Incl. Other($000)		4917049		397208		348830	4520913	-11.3

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES

1967 = 100

	1980	1981	MAY	JUNE	JULY	AUG.	Annual Rate Y-T-D 1982	% Change From Same Period Last Year
Pulp, Paper and Products except Building Grades	250.8	270.8	275.4	274.6	272.9	272.6	275.1	2.4
Pulp Paper & Products, ex. Building Grades & ex Waste Paper #	251.3	272.4	278.0	277.0	275.6	275.3	277.7	2.8
Total Wood Pulp	380.3	387.1	388.2	380.3	370.9	369.2	383.8	0.3
Total Paper	256.6	279.8	288.8	288.2	287.0	286.1	288.5	4.4
Total Paper, exc. Newsprint	249.3	271.1	278.4	278.4	278.8	276.8	279.8	4.7
Newsprint	278.7	307.5	324.0	321.0	318.4	318.4	319.5	5.5
Total Paperboard	234.6	258.1	258.8	255.8	255.0	255.5	258.6	0.8
Total Paper and Paperboard #	248.8	273.1	278.4	278.1	277.0	276.7	279.2	3.3
Converted Products	238.5	258.6	264.7	264.3	264.6	264.4	264.4	3.0
Waste Paper	208.7	175.7	121.5	115.2	115.6	116.0	123.7	-33.0
All Commodities	268.8	293.4	298.6	295.4	300.6	300.4	299.0	2.3
Industrial Commodities	274.8	304.1	309.5	310.7	313.0	313.4	311.4	3.2

SOURCE: Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor # Computed by API

Continued from Page 2

The increase in capital expenditures suggested by the Department of Commerce is consistent with data on capital appropriations reported by the Conference Board. The Conference Board reported that newly approved appropriations in the first quarter of 1982 by those paper and allied products companies included in the 1,000 largest U.S. corporations amounted to $2.1 billion, considerably higher than the $1.22 billion per quarter level of newly approved appropriations reported in the last half of 1981. The closing backlog of unspent appropriations at the end of the first quarter amounted to $6.4 billion, which was equivalent to about 1 3/4 years of capital expenditures at the year-end 1981 rate.

The Board further reported, however, that newly approved appropriations declined to $582 million in the second quarter of the year while expenditures rose to nearly $1 billion. Even with this decline in the backlog during the quarter, the closing backlog amounted to a shade less than $6 billion, which is historically a high level for this series. It suggests that expenditures could hold near the current level for at least the remainder of 1982.

Inputs

Wood pulp production in the first seven months of 1982, excluding the defibrated and exploded grades, was at a rate of 50 million tons

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Continued from Page 10

per year, 5% below the corresponding year-ago total. Imports, at 3.5 million tons per year, were down 17%, while exports, also at 3.5 million tons per year, were down less than 6%. As a result, the new supply rate was equal to the production rate and 6% below its year-ago level.

Production of dissolving pulps, largely used outside the paper industry for such products as rayon, acetate, cellophane and food additives, was at the rate of 1.1 million tons per year in the first seven months of 1982, 17% below its year-ago total. Exports, which normally account for about half the production total, were at 620,000 tons per year in this period, 21% below the corresponding 1981 total. The weakness in dissolving pulp production and demand may be seen by the comparison with the 1980 figures: in 1980, production of dissolving pulp amounted to 1.5 million tons, new supply, 1.0 million tons; new supply in the first seven months of 1982 was less than 700,000 tons per year.

The paper grade market pulp data reported by API's Pulp Division show a somewhat stronger trend than that of total wood pulp. API reports that paper grade chemical market pulp shipments in the first seven months of 1982 was at an annual rate of 4.7 million short tons per year, 4% below the year-ago level. Imports of these pulps were down 16%, but exports were off by only 2%. Preliminary data on chemical paper grade market pulp exports in August show a 12% drop from the August 1981 total, bringing the eight month 1982 rate 3% below its year-ago level. That same report shows that demand for U.S. chemical paper grade market pulp was supported by year-to-year increases in exports to Western Europe and Japan. At the same time, shipments to the U.S. market in the first eight months of 1982 were off by only 2%, while shipments to "other" markets declined by 13%.

The Pulp, Materials and Technology Group of API reported that fossil fuels and purchased energy used per ton of output at primary producers in the second quarter of 1982 (after adjustment for the net effect of such operating changes as environmental energy use, fuel mix, and capacity utilization) was 37.2% below the corresponding 1972 quarter. For the entire first half, the adjusted decline since 1972 amounted to 33.9%.

In another report, this Group noted that fossil fuel and purchased energy accounted for only 49.2% of the pulp, paper and paperboard industry's total energy needs in the first half of 1982, while 50.8% of the total came from self-generated and residue sources.

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The Group also published data on specific fuels used by the industry in that period. The report noted that spent liquors, the largest single source of fuel, accounted for 37.2% of the total use in the first six months of this year, compared to 33.4% in 1972. The report also showed that hogged fuel accounted for 7.5% of the industry's total use; in the comparable 1972 period, this type of fuel accounted for only 2.0% of the total use.

There were also some important changes in the use of purchased fuels. Residual fuel oil, for example, which accounted for 20.9% of total energy used by the industry in the first six months of 1972, dropped to 13.0% in the first six months of 1981 and 12.3% in the first six months of 1982. Coal, on the other hand, rose from 10.8% in the 1972 period to 11.2% in the first six months of 1981 and 12.0% in the first six months of 1982. Finally, natural gas dropped from 21.1% of the total in the first half of 1972 to 18.5% in the first half of 1981 and 17.2% in the first half of 1982.

The current recession has had a major impact on employment in the paper industry. Preliminary data for August 1982 show total employment at paper and allied products establishments at 660,000 persons, 5% below its year-ago total. For 1981 as a whole, employment averaged 688,000 while in 1980 it was 693,000. A similar pattern was evident at pulp, paper and board mills, where the July employment total was 257,600 persons, 5.6% below the year-ago level. In 1980, by way of contrast, employment averaged 268,400.

The rate of increase in average hourly earnings as reported by the Bureau of Labor Statistics has also slowed in 1982. For the first seven months of the year, average hourly earnings at pulp and paper mills was $10.64, 8.6% ahead of the corresponding year-ago level. Earnings at paperboard mills averaged $10.85 per hour in the first seven months of 1982, 8.1% above their year-ago level. In the five years 1976-1981, average hourly earnings rose by 10.5% per year at paper and pulp mills and 9.8% per year at paperboard mills.

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INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

SEPTEMBER 24, 1982

	PRODUCTION (000 TONS)					
	Aug. 1982	July 1982	Aug. 1981	Jan - Aug. 1982	- 1981	% Change 82/81
PAPER GRADES	P	R				
Newsprint	410	400	469	3430	3485	-1.6
Printing & Writing	1329	1223	1320	10352	10575	-2.1
Uncoated Groundwood (s)	130	123	128	956	985	-2.9
Coated Paper (s)	437	397	421	3312	3279	1.0
Uncoated Free Sheet Paper (s)	650	604	649	5195	5344	-2.8
Thin Paper (s)	27	24	28	220	229	-4.0
Cotton Fiber Paper (s)	10	9	10	83	82	0.5
Bleached Bristols (s)	75	67	83	587	655	-10.5
Tissue Paper	370	338	397	2930	3021	-3.0
Total Pkg & Other Paper	483	393	483	3517	3793	-7.3
Unbleached Kraft Packaging & Indl. Converting (s)	326	271	335	2434	2648	-8.1
Other Paper *	157	122	148	1083	1145	-5.4
TOTAL PAPER	2592	2354	2669	20230	20874	-3.1
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1305	1092	1381	9885	10767	-8.4
Unbleached Kraft Linerboard	1206	1006	1301	9154	10031	-8.7
Other Unbl. Kraft Paperboard	99	86	79	730	756	-3.4
Semichemical Paperboard	349	344	392	2940	3248	-9.5
Bleached Paperboard	316	295	333	2511	2690	-6.6
Recycled Paperboard	572	494	617	4460	4815	-7.4
TOTAL PAPERBOARD	2543	2225	2723	19796	21540	-8.1
TOTAL PAPER AND PAPERBOARD	5135	4579	5392	40026	42414	-5.6

WOOD PULP (ALL GRADES)	July 1982	June 1982	July 1981	Jan - July 1982	- 1981	% Change 82/81
Dissolving & Special Alpha	55	72	101	654	791	-17.3
Bleached Sulphite	95	112	10[illegible]	759	845	-10.2
Unbleached Sulphite	27	26	25	200	227	-12.0
Bleached & Semi-Bl. Sulph.	1490	1681	1567	11645	11785	-1.2
Unbleached Sulphate	1361	1515	1563	10727	11692	-8.3
Semichemical	300	326	312	2242	2370	-5.4
Groundwood and Thermo-Mechanical	407	429	413	3009	3084	-2.4
TOTAL PULP DIVISION DATA	3734	4161	4082	29235	30794	-5.1

(s) - Shipments R - Revised E - Estimate
P - Preliminary * - Revised series based on A.P.I. data.

September 31, 1982

	Full Year		INDUSTRY DATA			Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1980	1981	June	July	August		
Total Production (API).......| excluding |...	61147	62275	4920	4579	5135	60039	-5.6
Total Seasonally Adjusted....|construction|...			4779	4853	4954	59332	-5.6
Imports (including Products).| and wet |..E	8302	7941	657	543	N.A	7552	-4.5
Exports (including Products).| machine |..E	5148	4561	382	352	N.A	4244	-11.8
Apparent Consumption.........| grades |...	64301a	65655b	5054	5044	5194	62640c	-5.0
Paper Production % Tonnage Capacity...........	92.5g	92.3g	84.9	76.7	84.5	86.5gh	-
Paperboard Production % Tonnage Capacity......	91.8g	91.2g	81.1	72.1	82.9	83.9g	-
			May	June	July		
IMPORTS.....|Including Construction and |.....	8778	8339	746	705	585	7945	-6.2
EXPORTS.....| WMB Grades (excl. HPB) |.....	5214	4641	380	387	357	4298	-13.8
MARKET WOOD PULP PRODUCTION - Tons (000).........	6488	6190	516	492	382	5798	-6.3
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)....	50737	52041	4265	4161	3734	50118	-5.1
WOOD PULP IMPORTS - TONS (000)..................	4051	4087	302	287	289	3532	-17.3
WOOD PULP EXPORTS - TONS (000)..................	3806	3678	326	302	261	3512	-5.8
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS | excluding |			May	June	July		
Wood Pulp.............|consumption for|.....	49476	50827	4088	4001	3688	48721	-5.8
Waste Paper...........|construction & |.....	13551	14022	1191	1136	1033	13665	-4.0
TOTAL.........| WMB grades |.....	63027	64849	5279	5137	4721	62386	-5.4
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	79574	79747	6300	6737	6399	79114	-1.9
EMPLOYMENT (000)			June	July	August		
Paper and Allied Products..........Total......	692.8	687.8	663.9	659.4	660.0	663.2	-3.8
Pulp, Paper and Board Mills........Total.....E	268.4	266.6	259.4	257.6	258.5	257.7	-3.7
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products......................	7.84	9.60	9.28	9.40	9.40	9.18	8.7
Pulp, Paper Mills.........................E	9.15	10.06	10.83	10.98	11.00	10.69	8.6
Paperboard Mills..........................E	9.28	10.23	10.96	11.08	11.10	10.86	8.1
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1982 Q2	1982 Q3	1982 Q4		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	6.80	6.72	6.04	6.49	6.48	6.28	-6.6y
INDEX OF OUTPUT PER MAN-HOUR (1977=100).........			June	July	August		
|IN PULP, PAPER |...Production Workers..........	108.1	109.0	106.2	106.5	110.0	109.3	-0.4
|AND BOARD MILLS|...All Employees..............	106.6	107.9	104.3	104.7	108.2	107.4	-0.9
PAPER AND ALLIED PRODUCTS (Million $)			May	June	July		
Industry Shipments (Dept. of Commerce)*........	72731	79505	634[illegible]	6425	6601	78427	-1.0
Pulp, Paper and Paperboard*.................	31785	34260	2619	2677	2680	32858	-3.2
Inventories (End of Period) - Total Industry*.	7788	8825	8810	8757	8694	8694	3.1
Pulp, Paper and Paperboard*.................	2931	3461	3590	3576	3574	3574	17.1
			1981 Q4	1992 Q1	1982 Q2		
Sales (Corporations Only, FTC).................	56250	62699RS	15402	15125	15316	60882	-2.5
Earnings (Corporations Only, FTC)..............	2800	3110RS	829	418	436	1708	-48.2
Depreciation (Corporations Only, FTC)..........	2026	2267RS	558	580	602	2364	5.4
Net Worth (Corporations Only, FTC).............	24396	26558RS	26558	26825	26897	26897	4.5
PRICE INDEXES (Bureau of Labor Stats)1967=100			June	July	August		
Pulp, Paper & Products, ex. Building Grades...	250.6	270.8	274.6	272.9	272.6	275.1	2.4
Wood Pulp......................................	380.3	397.1	390.3	370.5	369.2	393.8	0.3
Waste Paper....................................	208.7	175.7	115.2	115.6	116.0	123.7	-33.0
Paper..	256.8	279.8	288.2	287.0	286.1	288.5	4.4
Paperboard.....................................	234.6	258.1	255.9	255.0	255.5	258.6	0.8
PAPER DEMAND (INDEXED: 1967=100)			June	July	August		
Total Paper Production *......................	143.9	148.4	139.8	144.7	143.2	143.8	-3.1
Paper New Supply *............................	136.1	137.9	131.1	130.6	129.5	133.1	-3.3
Total End - Use Index *.......................	146.3	150.3	147.4	148.3	148.5	149.3	-0.6
Production of Nondurable Goods *...(19%)..	161.2	164.7	155.0	155.3	155.4	155.9	-6.2
Disposable Income (Constant $) *...(23%)..	151.0	154.3	156.6	158.7	158.7	157.4	2.3
Total Printing and Publishing *...(58%)..	139.5	144.0	141.2	141.9	142.2	143.9	0.3
Trend Factor	----------	----------	--------	Not Available	--------	----------	----------
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *................	135.4	137.1	123.0	122.4	129.1	128.0	-8.1
Production for Domestic Use	128.3	132.9	117.6	118.2	124.3	123.3	-8.5
Total End - Use Index *......................	146.1	149.3	140.6	141.1	140.0	140.5	-6.9
Production of Consumer Goods *...(60.49%)	145.4	147.8	144.6	145.7	144.0	142.9	-4.2
Production of Equipment *...(6.62%)	145.2	151.8	138.3	137.0	136.0	141.3	-6.3
Production of Materials *...(32.89%)	147.6	151.5	133.6	133.4	133.4	135.9	-11.9
Trend Factor	----------	----------	--------	Not Available	--------	----------	----------
NEWSPRINT MARKETS			May	June	July		
Consumption by Publishers - Tons (000)........	11121	11205	[illegible]69	886	846	10663	-[illegible].4
Newspaper Pub. and Printing Empl. Total(000)..	422.8	421.9	424.1	425.3	423.6	424.6	1.3
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)..........	118372	122525	11847	9003	7828	114740	-0.7
WHOLESALERS SALES AND INVENTORIES (Million $)(j)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	21296	24381	2003	2137	2008	24410	2.2
Inventories (End of Period)	1849	2095	2151	2076	2107	2107	2.3
FIBRE BOX DATA (Fibre Box Association)			June	July	August		
Fibre Box Shipments (Million square feet)......	241376	246152	20076	19624	20414	234924	-6.2
Container'bd Inventory at Mill & Plant(000Tons)	1984	2729	2650	2594	2540	2540	6.9
RETAIL TRADE (Million $)							
Total Retail Sales *..........................	953984	1044587	88042	89089	88292	1057214	1.5
Nondurable Goods Stores Sales *..............	656231	716262	60867	61675	61931	731063	2.8
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	147.0	150.9	138.5	138.7	138.0	140.0	-8.2
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	268.8	293.4	299.4	300.6	300.4	299.0	2.3
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	246.8	272.4	290.6	292.2	292.8	287.0	6.9
			May	June	July		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	313.5	333.4	329.3	331.9	332.5	332.5	3.7
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$).			1981 Q4	1982 Q1	1982 Q2		
G.N.P. or Expenditure - Current $.............	2633.1	2937.7	3003.1	2995.5	3045.2	3020.4	4.8
G.N.P. or Expenditure - 1972 $................	1474.0	1502.6	1430.1	1470.7	1478.4	1474.6	-2.0

lb/capita

	Pap&Papbd		Othr		Totl	Popul(mil)
.a -	565	+	26	=	591	227.7
.b -	571	+	21	=	592	229.7
.c -	540	+	15	=	555	231.8

.E - Last month estimated by API
.e - estimated by API

g - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
j - Census unpublished data; standard dev. = 6-8%
N.A. - Not Available
P - Preliminary
Q - Quarter

R - Revised
RS - Revised Series
y - Full year estim. by U.S. Dept. of Com.
* - Seasonally Adjusted